

Biology is a natural science concerned with the study of life and living organisms, including their structure, function, growth, evolution, distribution, and taxonomy. Sub disciplines of biology are defined by the scale at which organisms are studied, the kinds of organisms studied, and the methods used to study them.

SECOND YEAR BIOLOGY

Objective Portion, Short Questions,
Memory Tricks, Conceptual Questions,
Experiment Based Questions, Labeled Diagrams

2015-16

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Fauji Foundation Higher Secondary School (Inter College) Talagang June 9th, 2015 Tuesday



1. A check and balance mechanism requires maintaining homeostasis in the body is: (a) Guard system (b) Move back system (c) Operation system (d) Feedback system (e) Homeostasis 2. Series of similar effect, which leads to the enhancement of the change under consideration is: (a) Positive feedback (b) Longitudinal feedback (c) Negative feedback (d) Transverse feedback (e) Vertical feedback (d) Transverse feedback (e) Vertical feedback (d) Transverse feedback (e) Vertical feedback (f) Transverse feedback (g) Positive feedback (g) Vertical feedback (g) Positive feedback (g) Positive feedback (g) Vertical feedback (g) Positive feedback (g) Positive feedback (g) Vertical feedback (g) Positive feedback (g) Positive feedback (g) Positive feedback (g) Positive feedback (g) Solute Pressure (h) Water Pressure (h) Solute Pressure (h) Water Pressure (h) Water Pressure (h) Water Pressure (h) Water Pressure (h) Positive feedback (h) Partial Pressure (h) Partial Pressure (h) Positive feedback (h) Partial Pressure (h)				
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/ D. A. P		(a) Respirants	(b) Translucent	(c) Succulents
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13.	In Fresh water protoctists, osmoregu (a) Food vacuole (d) Contractile vacuole	llation takes place by: (b) Pseudopodia (e) Mitochondria	(c) Producin	g dilute urine
14.	In Fresh water animals like fishes, or (a) Food vacuole (d) Contractile vacuole	smoregulation takes place by: (b) Guttation (e) Producing concentrated u	` '	g dilute urine
15.	Animals having isotonic body fluid w (a) Osmoconformers (d) Osmodilutors	ith no osmoregulatory mechanis (b) Contract conformers (e) Osmocongeners	ms are: (c) Osmoret	ractors
16.	In Plants, diffusion of surplus water i (a) Respiration (b) Transpira		s: (d) Transduction	(e) Osmosis
17.	In Plants, the loss of water in liquid for (a) Succulence (d) Guttation	orm is: (b) Transpiration (e) Ascent of sap	(c) Transduc	ction
18.	Concerning Ammonia (NH ₃) as excre (a) It is highly soluble in water (b) It can diffuse very rapidly across (c) It is highly toxic if remains in the of (d) In Fishes ammonia is excreted the (e) In Animals liver is involved in exc	the plasma membrane. organism. orough gills as ammonium ions.	statement is not correc	ct?
19.	"Uric acid" is: (a) $C_3O_5N_5H_2$ (b) $C_5O_3N_4H_2$	(c) C ₄ O ₆ N ₄ H ₃	(d) C ₆ O ₃ N ₄ H ₂	(e) C ₅ O ₄ N ₃ H ₂
20.	In Hydra, nitrogenous wastes is in the (a) Urea (b) Uric Acid	e form of: (c) Ammonia	(d) Bilirubin	(e) Biliverdin
21.	Excretion in Hydra takes place throu (a) Simple diffusion (d) Nephridia	gh: (b) Facilitated Diffusion (e) Malphigian Tubules	(c) Flame Co	ells
22.	Excretion in "Planaria" takes place the (a) Simple diffusion (d) Metanephridia	nrough: (b) Facilitated Diffusion (e) Maiphigian Tubules	(c) Flame Co	ells
23.	In Planaria, excretory fluid (Urine) is (a) Hypertonic (d) Isotonic	passed out in the form of sol.: (b) Hypotonic (e) All are incorrect	(c) Paratonio	C
24.	Excretory and Osmoregulatory organ (a) Malphigian tubules (d) Paranephridia	ns in Earth worm is: (b) Flame Cells (e) Protonephridia	(c) Metanep	hridia
25.	In Earthworm, opening to inside is: (a) Protostome (d) Parastome	(b) Metastome (e) Nephrostome	(c) Nephridio	opore
26.	In Earthworm, excretory opening to (a) Nehridiopore (d) Maiphigian Tubules	outside is through: (b) Protodiophore (e) Nephiostome	(c) Metathop	ohore

27.	Excretion in "Insects" takes (a) Simple Diffusion (d) Maiphigian Tubules	(b)	Kidneys Metanephridia		(c) Flame Cells
28.	Excretory organs in man: (a) Kidney, Spleen, Gall Bl (d) Kidneys, Lungs, Liver		Liver, Spleen, Par Kidneys, Liver, Sk		(c) Skin, Liver, Gill Bladder
29.	Excess glucose is converte (a) Pancreas (b) Kidneys		in: (d) Lungs	(e) Gall Bladd	er
30.	Plasma proteins like prothi (a) Liver (b) Lungs		d globulin synthes as (d) Duodenur		
31.	Cholesterol is chiefly synth (a) Lungs (b) Duoder	esized in: num (c) Pancrea	as (d) Kidneys	(e) Liver	
32.	Bile is: (a) Greyish white, alkaline (d) Bluish white, alkaline fl	` '	Yellowish Green, Greenish Brown,		(c) Red Green, acidic fluid
33.	Storage of Vitamins takes (a) Stomach (b) Liver	place in: (c) Kidneys	(d) Pancreas	(e) Spleen	
34.	Urinary System of man cor (a) Kidney → Ureters → B (b) Kidney → Urethra → U (c) Kidney → Pelvis → Urethra → Bladen → Bl	adder → Pelvis reters → Bladder eters → Bladder ethra → Bladder	 → Urethra er → Pelvis → Urethra → Ureters 	K	
35.	Gland located on the top o (a) Adrenal (b) Thyroid	=	: ls (d) Pituitary	(e) Endometri	al
36.	Structural and functional u (a) Villus (b) Neuron	-	ne (d) Glial Cells	s (e) Hepatocyte	es
37.	Loop of Henle (b) Distal Convoluted Tubu Collecting Duct. (c) Bowman's Capsule → Convoluted Thule (d) Bowman's Capsule → Convoluted Tubule	Distal Convolute ule → Bowman's Proximal Conv Collecting Duc	s Capsule → Prox roluted Tubule → et → Proximal Co	kimal Convoluted Collecting Duct	Tubule → Collecting Duct— Tubule → Loop of Henle → → Loop of Henle → Dista → Loop of Henle → Dista Distal Convoluted Tubule —
38.	The kidney excretes(a) 5 (b)	liters of t	urine each day. (c) 1-2	(d) 7-5	(e) 15 -20
39.	Active reabsorption of the (a) Proximal Convoluted T (d) Distal Convoluted Tubu	ubule (b)	te occurs in the: Loop of Henle Collecting Duct		(c) Bowman's Capsule

40.	The permeability of the (a) Diuretic hormone (d) Parathormone	walls of the co	llecting ducts to water is regula (b) Atrial Natriuretic factor (e) Aldosterone	(c) Antidiuretic hormone	
41.	The concentration of so (a) Diuretic hormone (d) Parathormone	odium ions in th	ne body fluids is controlled by he (b) Atrial Natnuretic factor (e) Aldosterone	ormone called: (c) Antidiuretic hormone	
42.	Kidney stones or CALC (a) Calcium Bicarbonat (d) Sodium Bicarbonate	e	composed of: (b) Calcium Oxalate (e) Mercuric Chloride	(c) Potassium Citrate	
43.	Method for removing ki (a) Lithotomy (d) Lithotripsy	dney and ureth	ral stones is: (b) Lipodystrophy (e) Hysterectomy	(c) Leprotomy	
44.	In kidney or ureteral sto (a) X-rays (d) Beta-rays	one removing p	rocedure, the waves used to br (b) Gamma-rays (e) Ultrasonic rays	reakup calculi is: (c) Alpha-rays	
45.	In patients with renal far fluids from the body is: (a) Hysterectomy (d) Angioplasty	nilure, a technic	que used to remove water produ (b) Dialysis (e) Fluid Aspiration	ucts from the blood and excess (c) Endoscopy	
46.	(c) At the level of freezi (d) In some plants ice of	more harmful t ease the propo ng point cause rystals are forr		ll. the cytosol	
47.	Plant cells synthesize h (a) 10 °C or above (d) 60 °C or above	eat shock prot	eins at: (b) 20 °C or above (e) 100 °C or above	(c) 40 °C or above	
48.	Poikilotherms Include a (a) Invertebrates (d) Reptiles	III except:	(b) Fishes (e) Mammals	(c) Amphibia	
49.	The hypothalamus is set (a) Cool point (d) Feedback point	et at a particula	r temperature called: (b) Set point (e) Control point	(c) Hot point	
50.	Temperature set point (a) Hypertension (d) Pyrexia	of a man above	e 98.6 °F is termed as: (b) Pyogenic (e) Hypyerexia	(c) Progenic	
51.	It does not happen duri (a) Sweating (d) Vasco constriction	ng regulation c	of cold temperature: (b) Shivering (e) Subcutaneous fat accumul	(c) Hair erection lation	
52.	The incidence of calciu (a) 10%	m phosphate s (b) 15%	tones in kidney: (c) 20%	(d) 30%	

53.	Which of the following (a) Stem	part of plant is excretor (b) Roots	ohore? (c) Leaves	(d) Flowers
54.	Reptiles are included (a) Homeotherms	n: (b) Endotherm	(c) Ectotherm	(d) Hetrotherms
55.	Metabolism of purine a (a)Creatinin	and pyrimidineproduces (b)Creatine	significance amount of (c)Xanthin	: (d)Trimethylamine oxide
56.	Animals excreting ami (a)Ureotelic	monia are called: (b)Uricotelic	(c)Ammonotelic	(d)Excretotelic
57.	Earthworm has tubula (a)Prenephredia	r excretory system calle (b)Protonephredia	ed: (c)Mesonephredia	(d)Metanephredia
58.	Excretory product that (a)Urea	requires minimum loss (b)Uric Acid	of water for its removal (c)Creatinin	is (d)Ammonia
59.	(a) Cacti	e plant. (b) Hydrilla	(c) Brassica	(d) Kikar
60.	Major homeostatic fun (a) Bile	ction of liver is storage (b) Cholesterol	of: (c) Urea	(d) Iron
61.	Bats do not regulate the (a) Endotherm	neir body temperature ir (b) Homeotherm	n narrow range is: (c) Heterotherm	(d) Poikilotherm
62.	Fishes retain which of (a) Allantoin	the following chemical (b) Creatine	to be protected against (c) Xanthin	urea? (d) Trimethylamine oxide
63.	Glomerulus circulate to (a) Efferent Arterioles	olood through capsule a (b) Vasa recta	s it arrives through. (c) Afferent Arterioles	(d) Peritubular Capillaries
64.	Uric Acid is produced (a) Amino Acid	from: (b) Nucleic Acid	(c) Fatty Acid	(d) Proteins
65.	The structural and fun (a) Planaria	ctional relationship betv (b) Earthworm	veen excretory and nutr (c) Cnidaria	itive system is present in: (d) Insects



>>> SUPPORT AND MOVEMENT

1.	Cytoplasmic streaming (a) Cytosis	g is called: (b) Cyclosis	(c) Cyto-flow	(d) Cytomycosis	(e) Cycling
2.	Protoplasm possesses (a) Irritability	s special characteris (b) Dispensability	stics of due to change in er (c) Trophism	nvironment. (d) Extremitism	(e) Irritability
3.	The outer most layers (a) Endodermis	of thin walled cells (b) Cortex	of young stem is: (c) Epidermis	(d) Exodermis	(e) Medulla
4.	Uniformly thick, heavil (a) Parenchyma	y lignified secondary (b) Collenchymas	y walls, which give strengtl (c) Sclerenchyma	n to the plant body, are (d) Fibers	tissues: (e) All
5.	Simple living tissue, e (a) Parenchyma	ongated, irregularly (b) Collenchymas	thickened walls is: (c) Sclerenchyma	(d) Fibers	(e) All
6.	Tissues, which are for (a) Simple	med by the activity of (b) Compound	of vascular cambium and c	ork cambium are called (d) Secondary	: (e) Tertiary
7.	Elongated cells with ta		and strong but flexible, are (c) Collenchymas	all characteristics of: (d) Sclerenchyma	(e) Fibers
8.			takes place in zigzag ma his movement is called: (c) Vibration	nner due to an alterna	ite change in (e) Turgor
	(a) Nutation	(b) ividiation	(c) Vibration	(u) Nastic	(e) Tuigoi
9.	When movement occu (a) Nutation	urs due to faster grov (b) Epinastic	wth on the upper side of th (c) Hyponastic	e organ is known as: (d) Paranastic	(e) Paratonio
10.	When movement occu (a) Nutation	rs due to faster gro (b) Epinastic	wth on lower surface of the (c) Hyponastic	e growing organ, it is kno (d) Paranastic	own as: (e) Paratonic
11.	Movements which occurs (a) Nutation	eur due to external s (b) Nastic	timuli are known as: (c) Turgor	(d) Paratonic	(e) Tropic
12.	Movement occurs due (a) Nutation	to change in turgidi (b) Nastic	ity and size of cells as a re (c) Turgor	sult of loss or gain of wa (d) Induced	ater called: (e) Tropic
13.	Paratonic movements (a) Nutation	are also known as: (b) Epinastic	(c) Paranastic	(d) Induced	(e) Tropic
14.	Growth responses that (a) Nutation (e) Epinastic moveme	(b) Tropism	s of whole plant organs tov (c) Turgic movement	•	uli is:
15.	Curvature movement (a) Geotropism (d) Phototropism	(b)	to touch stimulus is: Chemotropism Thigmotropism	(c) Hydrotropism	

16.	Movement caused due (a) Haptonastic	e to stimuli of touch (b) Hygronastic	is: (c) Photonastic	(d) Paranastic	(e) Epinastic
17.	Growth movement in p	plants is mainly cont (b) Neuroxins	trolled by phytohormone c (c) Auxins	ealled: (d) Phytoxins	(e) Cytoxins
18.	Simplest skeleton four (a) Appendicular	nd in soft bodies inv (b) Hydrostatic	ertebrates is sk (c) Endo-	xeleton. (d) Axial	(e) Exo-
19.	Hydrostatic skeleton is (a) Molluscs	s found in: (b) Octopus	(c) Earth Worms	(d) Humans	(e) Crabs
20.	Molluscs have an exo	skeleton made up o (b) Chitin	f: (c) Cuticle	(d) Liquid Jelly	(e) Lime
21.	The most complex typ (a) Molluscs	es of exoskeleton is (b) Mammals	s found in: (c) Arthropods	(d) Jelly Fish	(e) Octopus
22.	The process of shedd (a) Ecdysis	ng of exoskeleton a (b) Acanthosis	and make up of new and L (c) Ecthosis	arger one is: (d) Necrosis	(e) Moulding
23.	Exoskeleton Is: (a) Living. Growing (d) Non-living, Non-Gr	` ,	Non-living, Growing May be living or non-livin	(c) Living, No	n-Growing
24.	Endoskeleton is comp (a) Bones and Muscle (d) Tendons and Bone	s (b)	Blood vessels and ligame Bones and Cartilages	ents (c) Cartilages	arid Tendons
25.	An adult human endos	skeleton consists of (b) 106	bones. (c) 159	(d) 206	(e) 265
26.	Axial skeleton include (a) Skull, Pelvic girdle (c) Skull, Sternum, Ve (e) Ribs, Sternum, Ve	s, Bones of arms an rtebrae and ribs	(d) Skull, Rib	rnum, Pelvic and Pector s, Bones of arms and le	•
27.	A human endoskeleto (a) 5	n is about % (b) 10	6 of the total body weight.	(d) 15	(e) 18
28.	Appendicular skeletor (a) Ribs, Sternum, Ve (b) Arms and Legs Bo (c) Sternum, Bones of (e) Pelvic Girdle, Ribs	rtebrae nes, Pelvic and Pec arms and legs, Ver	tebrae (d) Ribs, Ver	tebrae, Pelvic and Pecto	oral Girdle
29.	Spinal cord consists o (a) 18	f vertebrae. (b) 22	(c) 30	(d) 33	(e) 36
30.	Brain box is made up (a) Four	of bones (b) Six	to protect the brain. (c) Seven	(d) Eight	(e) Ten
31.	Each pectoral girdle c (a) Humenus and Rac (d) Tibia and Ulna	ius (b)	Calvide and Scapula Sternum and Scapula.	(c) Sternum a	nd Ribs

32.	Each of the human fo (a) 12	re limb (upper limb) o (b) 20	contains bones. (c) 30	(d) 35	(e) 38
33.	Bone which forms a b	eall and socket joint w (b) Humerus	rith scapula is: (c) Radioulna	(d) Fibula	(e) Tibia
34.	Number of Carpel bor (a) Four	nes in each wrist is: (b) Five	(c) Six	(d) Seven	(e) Eight
35.	From the palm extend (a) Phalanges	fingers containing 1- (b) Carpals	4 small bones called: (c) Metacarpals	(d) Patella	(e) Tarsals
36.	Each pelvic girdle is for (a) Femur, Sternum, I (d) Tibia, Fibula, Patc	Fibula (b)	of 3 bones called: Femur, Tibia, Fibula Ilium, Tibia, Ischium	(c) Ilium, Ischium, Pul	bis
37.	The longest and stron (a) Humerus	ngest bone in the bod (b) Femur	y is: (c) Sternum	(d) Scapula	(e) Patella
38.	Cells of the bone are (a) Hepatocytes	called: (b) Melanocytes	(c) Osteocytes	(d) Chondrocytes	(e) Chart
39.	Cells of the cartilages (a) Hepatocytes	are called: (b) Melanocytes	(c) Osteocytes	(d) Chondrocytes	(e) Glial
40.	Joint present in elbow (a) Ball & Socket	is: (b) Hinge	(c) Pivot	(d) Sliding	(e) Gliding
41.	Ankle or wrist joint in (a) Ball & Socket	an example of (b) Hinge	joint. (c) Pivot	(d) Sliding	(e) Gliding
42.	Deformity of the joint vertebrae narrow is:	of two vertebrae part	icularly of the neck where	e the space between the	two adjacent
	(a) Rickets	(b) Disc Slip	(c) Spondylosis	(d) Arthritis	(e) Sciatica
43.	Condition in which a j (a) Microcephaly	oint becomes swoller (b) Disc Slip	n, painful and immovable (c) Spondylosis	is: (d) Arthritis	(e) Sciatica
44.	Number of muscles p (a) 200	resent in a human bo (b) 300	ody is: (c) 400	(d) 600	(e) 900
45.	Some skeletal muscle (a) Cartilages	es terminate into a tou (b) Ligaments	ugh, non-elastic tissue ca (c) Tendons	lled: (d) Blood vessels	(e) All
46.	Human eye muscle co	ontract in: (b) 0.01 sec	(c) 1 sec	(d) 0.01 min	(e) 1 min
47.	Sudden involuntary co	ontraction of striated (b) Fatigue	muscles which is caused (c) Stroke	by low level of calcium i (d) Thrombosis	in the blood: (e) Ecdysis
48.	Locomotion in Param (a) Pseudopodia	ecium is brought abo (b) Cilia	ut by: (c) Flagella	(d) Rhizoid	(e) Foot
49.	Locomotion in Euglen (a) Pseudopodia	a is brought about by (b) Cilia	/: (c) Flagella	(d) Setae	(e) Foot

50.	Locomotion in Snail is (a) Cilia	brought about by: (b) Flagella	:	(c) Foot	(d) Tube Feet	(e) Legs
51.	Each myosin filament (a) 4	is surrounded by ₋ (b) 6		actin filaments. (c) 8	(d) 12	(e) 14
52.	Bones of the skull are (a) Fixed joints (d) Hinge joints	(I	•	ding joints rtially moveable joints	(c) Pivot joints	
53.	The protein filament w (a) Actin	hich binds calciun (b) Myosin	n:	(c) Troponin	(d) Tropomyosin	
54.	Which one of the follo (a) Rabbit	wing is plantigrade (b) Monkey	e?	(c) Horse	(d) Goat	
55.	Twisting around the a	ctin chain there are (b) Tropomyosin		strands of another prot (c) Troponin	tein: (d) Creatinine	
56.	The heartwood accum (a) Cellulose	nulates the chemic (b) Abscisins	cals:	(c) Chitin	(d) Resins	
57.	Spontaneous moveme (a) Autonomic	ents due to interna (b) Paratonic	al caus	ses are called: (c) Tactic	(d) Tropic	
58.	The fusion of four pos (a) Cervical	terior pelvic verteb (b) Coccyx	orae is	(c) Lumber	(d) Sacrum	
59.	Cambium is an examp (a) Apical	ole of(b) Intercalary	_ meris	stem. (c) Lateral	(d) Apex	
60.	Fibers, Sclereids and (a) Collenchymas	vessels are three (b) Sclerenchym		of (c) Parenchyma	(d) Cambium	
61.	Bone dissolving cells (a) Osteoblasts	are called: (b) Stem cells		(c) Osteocytes	(d) Osteoclasts	
62.	A bone which connect (a) Humerus	t scapula with steri (b) Ischium	num:	(c) Pubis	(d) Clavicle	
63.	Action of venous fly tra (a) Nyctinasty	ap is an example of (b) Haptonasty	of:	(c) Hyponasty	(d) Photonasty	
64.	Which of these are lor (a) Sclereids	ng, Cylindrical and (b) Vessels	l exist	as bundle caps? (c) Trachea	(d) Tracheids	
65.	Leaves go to sleep po (a) Pelvis	osition when turgor (b) Pulvinus	r press	sure decreases in the lo (c) Callus	ower side of: (d) Pubis	
67.	Cramp is also known a	as: (b) Tetanic contr	raction	ı (c) Tetanus	(d) Muscle fatigue	
68.	An increase in plant g (a) Primary growth	irth due to activity (b) Open growth		scular cambium is calle (c) Secondary growth		



>>> COORDINATION AND CONTROL

1.	Mechanism of control localized effects, involving (a) Chemical control (d) Respiratory control	ves in electrical a	and che	=		lls, faster in a	
2.	Plants response to light (a) Auxin	nt due to the pres (b) Gibberallin	sence c	of a hormone in its gr (c) Neuroxin	owing tip, t (d) Phy		as named: (e) Cytoxin
3.	The movements in pla the direction of stimulu	-			the direction	n of responses	related to
	(a) Photoperiodism	(b) Biorhythm		(c) Reflex Action	(d) Auto	onomy	(e) None
4.	Living organisms wher (a) Biorythms	n repeat their bio (b) Photoperiod	-	or behavioral activitie (c) Reflex Action	es at regula (d) Auto		behavior is: (e) Tropism
5.	The phenomenon in w (a) Geotropism (d) Photoperiodism	hich the influenc	(b) Phy	y length on plants is toperiodism lex Action	studied is o	called: (c) Thigmotrop	oism
6.	Principal naturally occ (a) Acetic Acid (d) Ribonucleic Acid	urring "auxins" o	(b) Indo	plants is: ole Acetic Acid ohthalene Acetic Acid		(c) Ethyl Acetic	c Acid
7.	Which one of the follow (a) Cell division and Co (d) Apical dominance	•	(b) Initia			(c) Abscission	
8.	Gibberellins inject rice (a) Foolish	seedlings and p (b) Apical	roduce	a disease called (c) Lateral	s (d) Sile	eedling. nt	(e) Rubbish
9.	Cytokinins are original (a) Rice	ly obtained from (b) Coconut		milk. (c) Almond	(d) Dar	Э	(e) Rose
10.	One of the naturally od (a) Kinetin	ccurring cytokinir (b) Creatin	n is:	(c) Zeatin	(d) Rea	tin	(e) Cytokin
11.	Which one of the follow (a) Creatin	wing is synthetic (b) Zeatin	cytokin	in? (c) Cytokin	(d) Rea	tin	(e) Kinetin
12.	The most important ro (a) It Triggers Ripening (d) Initiation of Roots	, ,	(b) It b	reak seed dormancy auses stomata to clos	se	(c) Parth enoc	arpy
13.	Special kind of animal (a) Nephon	cell which can g (b) Neuroglial c		e and conduct electric (c) Myocytes	c current is (d) Hist		(e) Neurons
14.	Cell body of neuron is (a) Roma	called: (b) Koma		(c) Soma	(d) Neu	roma	(e) Glioma

15.	Cell body of neurons contains "NISS (a) Mitochondria (d) Nucleolus	SL SUBSTANCE" which consists (b) Lysosomes (e) Ribosomes	s of: (c) Peroxisor	mes
16.	Axon originates from a pyramid like (a) Node of Ranvier (d) Axon –Takeoff	area of soma called: (b) Axon – Halloick (e) Myelin Sheath	(c) Axon -Bu	ttock
17.	Neurons takes commands of the cor (a) Sensory Neurons (d) Inter Neurons	ntrol centre to the effectors are: (b) Neuroglial Cells (e) Sub-sensory Neurons	(c) Motor Ne	urons
18.	Resting membrane potential of neuronal (a) - 30 mV to- 45 mV (d) - 40 mV to- 90 mV	ons Is: (b) - 20 mV to- 50 mV (e) -50 mV to -85 mV	(c) -45 mV to	o -65 mV
19.	Neuron depolarizes at (a) – 65 mV (b) - 30 mV	(c) -40 mV	(d) + 40 mV	(e) +65 mV
20.	The region where the impulse move (a) Axon-Halloick (b) Synapse	s from one neurons to another i (c) Node of Ranvier	s: (d) Myelin Sheath	(e) Soma
21.	Automatic, involuntary responses wh (a) Synapses (d) Resting Membrane Potential	nich occur either due to internal (b) Action Potential (e) Nerve impulse	or external stimuli are: (c) Reflex Ad	
22.	In Hydra, the nervous system consist (a) Transverse nerves (b) Nerve con		(d) Nerve net	(e) Nerve ro
23.	The largest and most complex part (a) Thalamus (b) Hypothala		a (d) Cerebellum	(e) Cerebru
24.	The activity of two cerebral hemisph (a) Corpus Callosum (d) Vernix Cascosa	eres is co-ordinated by: (b) Superior Sagittal Sinus (e) Limbic System	(c) Corpus C	Cavernous
25.	The diencephalons consists of: (a) Mid Brain and Cerebellum (d) Thalamus and Limbic System	(b) Medulla Oblongata and M (e) Cerebral Lobes and Hypo		s and Pons
26.	Part of the brain important in regulat (a) Amygdala (b) Hypothala		(d) Hippocampus	(e) Midbrair
27.	The hippocampus is involved in: (a) Perception of pain and pleasure (d) Short term memory	(b) Regulation of pituitary gla (e) Intelligence and Reasonir	` ,	n memory
28.	Breathing, heartbeat, blood pressure (a) Cerebellum (b) Medulla C	e, coughing, swallowing are all ւ Dblongata (c) Mid Brain	under the control of: (d) Thalamus	(e) Pons
29.	The brain-stem consists of: (a) Thalamus, Hypothalamus, Amyg (c) Medulla Oblongata, Pons, Cereb (e) Medulla Oblongata, Mid Brain, Pons	ellum (d) Medulla C	n, Cerebellum, Thalamu Oblongata, Mid Brain, C	

30.	Peripheral Nervous Sys	stem consists o	of pairs of Spinal nerves.		
	(a) 12	(b) 19	(c) 29	(d) 31	(e) 36
31.	Receptors detect sound	d, motion, touc	h, pressure are called:		
	(a) Thermoreceptors		(b) Chernoreceptors	(0	c) Mechanoreceptors
	(d) Photoreceptors		(e) Painreceptors	·	,
32.	Receptors detect tissue	e damage are	called:		
	(a) Thermoreceptors		(b) Chernoreceptors	((c) Mechanoreceptors
	(d) Photoreceptors		(e) Painreceptors	,	,
33.	Aortic body and carotid	body, both are	e chemoreceptor's which are	sensitive to i	n the blood
	(a) O ₂ and CO ₂	,,	(b) CO ₂ and H ⁺		c) O ₂ and H ⁺
	(d) NH_3 and H^+		(e) O ₂ , CO ₂ and NH ₃	(-	.,
34.	Brain disorder caused of brain is:	either by deger	neration or damage to nerve	tissue within	the basal ganglia of the
	(a) Parkinson's disease	1	(b) Alzheimer's disease	(0	c) Schizophrenia
	(d) Psychosis		(e) Dementia	(-	5) COMEOPHIO
35.	Most effective drug in F	Parkinson's dis	ease is:		
00.	(a) Carbidopa		(b) Amamidine	(0	c) Bromocriptine
	(d) Levodopa		(e) Benztropine	(-	o, =: oopo
	, ,				
36.	Parkinson's disease is	due to the defi	•		
	(a) Epinephrine		(b) Nor-epinephrine	(0	c) Histamine
	(d) Serotonin		(e) Dopamine		
37.	Progressive degenerati	on of neurons	of brain causes loss of mem	ory is:	
	(a) Parkinson's disease		(b) Alzheimer's disease	(0) Huntington's disease
	(d) Schizophrenia		(e) Psychosis		
38.	Tendency of recurrent	seizures or ten	nporary alteration in one or n	nore functions	s is:
	(a) Psychosis		(b) Alzheimer's disease	(0	c) Epilepsy
	(d) Diphtheria		(e) Schizophrenia		
39.	Glucagon is	hormones.			
	(a) Short chain amino a	ncids	(b) Long chain amino acids	s (c	c) Modified amino acids
	(d) Steroid		(e) All are incorrect		
40.	Estrogen and Progeste	rone are	hormone.		
	(a) Short chain amino a	ncids	(b) Long chain amino acids	s (c	c) Modified amino acids
	(d) Steroid		(e) All are incorrect		
41.	Modified amino acid ho	rmone include	s:		
	(a) Insulin		(b) Oxytocin	(0	c) Glucagon
	(d) Anti-Diuretic Hormo	ne	(e) Thyroxin		
42.		ain which serv	es as connecting link betwee		
	(a) Thalamus		(b) Cerebellum	(0	c) Hypothalamus
	(d) Hippocampus		(e) Medulla Oblongata		
43.	"Master gland" was form	mer name of:			
	(a) Pituitary gland		(b) Adrenal gland	(0	c) Thyroid gland
	(d) Parathyroid gland		(e) Pineal gland		

44.	, , , , , , , , , , , , , , , , , , , ,		(b) FSH (Follicular Stimulating hormone)(d) MSH (Melanocyte Stimulating hormone)				
45.	The posterior pituitary (a) TSH	lobe secretes: (b) FSH		(c) ADH	(d) MS	Н	(e) LH
46.	To induce labour horm (a) Growth	none is given: (b) Thyroid		(c) Antidiuretic	(d) Oxy	/tocin	(e) Cortisol
47.	The over-production of (a) Acromegaly (d) Myxedema	f STH (Somatot		jantism	ults in:	(c) Dwarfism	
48.	Hypothyroidism results (a) Acromegaly (d) Myxedema	s in adults.	(b) Gig (e) Cre	gantism etinism		(c) Dwarfism	
49.	Excessive secretion of (a) Acromegaly (d) Myxedema	f STH during chi		jantism		(c) Dwarfism	
50.	If hypothyroidism occu (a) Acromegaly (d) Myxedema	irs in early age,		jantism		(c) Dwarfism	
51.	Hormone Involved In (a) Groh hormone (d) Aldosterone	glucose metabol	(b) Ant	d are produced durir tidiuretic hormone drogens	ng anxiety, f	ever and disea (c) Cortisol	ses is:
52.	Over production of Co (a) Crohn's Syndrome (d) Addison's Disease		(b) Cu	rshing Syndrome etinism		(c) Down Syn	drome
53.	Deficient production of (a) Crohn's Syndrome (d) Addison's Disease		(b) Cu	truction of adrenal g shing Syndrome xedema	land is:	(c) Klienfelter	Syndrome
54.	Hormone sometimes of and acute asthma atta	ick is:				•	
	(a) Aldosterone	(b) Epinephrine	е	(c) Insulin	(d) Cor	tisol	(e) Thyroid
55.	The scientific study of setting is called:	the nature of be	ehaviou	_			
	(a) Ethology	(b) Etiology		(c) Ecthyology	(d) Ent	omology	(e) Ecology
56.	Innate (Instinctive) Be (a) Classic conditionin (d) Operant Conditionin	g	(b) Imp	orinting ight Learning		(c) Fixed action	on pattern
57.	Type of learned behabeneficial nor harmful		animal	stops responding	to repeated	d stimulus, wh	ich is neither
	(a) Imprinting (d) Habituation	10.		ed action pattern ight Learning		(c) Operant C	onditioning

58.	Solving a problem with (a) Imprinting (d) Habituation	nout trial and err	(b) Late	ing is called: ent Learning ght Learning	(c) Operant Learning
59.	Learning which is not a utilized at a later Lime		a partic	ular stimulus and is no	t normally rewarded or punished but
	(a) Habituation(d) Operant Condition	ng	(b) Imp (e) Late	rinting ent Learning	(c) Classic Conditioning
60.	Orientation behaviour (a) Taxes (d) Fixed Action Patter		(b) Ref		3 particular stimulus is: (c) Kinases
61.	Match diabetes insipio (a) Oxytocin	lus with one of the (b) Vassopress		ving. (c) Insulin	(d) Glucagon
62.	Kohler used Chimpana (a) Habituation	zee to prove: (b) Imprinting		(c) Latent Learning	(d) Insight Learning
63.	The corpuscles situate (a) Meissner's	ed quiet deep ins (b) Pacinian's	side the	body is: (c) Nissle's	(d) White Blood Cells
64.	The simplest form of let (a) Imprinting	earning is: (b) Habituation		(c) Insight Learning	(d) Latent Learning
65.	The hormone secreted (a) Gastrin	d by mucosa of t (b) Secretin	he pylo	ric region of the stoma (c) Estrogen	ch is: (d) Progesterone
66.	The type of learning in (a) Imprinting	volves diminution (b) Habituation	_	ponse with repeated s (c) Latent Learning	timuli: (d) Insight Learning
67.	Gastrin is hormone pro (a) Adrenal	oduced by: (b) Pancrease		(c) Gut	(d) Liver
68.	is applied (a) Abcisic Acid	to rubber plant t (b) Gibberellin	o stimul	ate flow of latex. (c) Ethene	(d) Auxin
69.	Which one of the followal TSH	wing produce in (b) ACTH	excess	then leads abnormal d	levelopment called acromegaly? (d) STH
70.	Rodents respond to all (a) Imprinting	arm calls by oth (b) Habituation		eir group is an exampl (c) Conditioning	le of behavior: (d) Latent learning
71.	Nociceptors produce t (a) Touch	he sensation of: (b) Warmth		(c) Pressure	(d) Pain
72.	Vassopressin (Antidiu (a) Proteins (c) Polypeptides	retic hormone) a	-	ino acid and Derivative	es



>>> REPRODUCTION

1.	Asexual reproduction i (a) Sporulation (d) Molding	n plants, which	(b) Veg	e seeds without that flogetative Propagation thenogenesis	lowe	rs being fertilized is ca (c) Apomixis	alled:
2.	A group of genetically (a) Spore	identical offsprir (b) Clone	ng produ	uced by asexual meth (c) Trait		ealled: d) Crop	(e) Bud
3.	If the two fusing game then this is called:			·			ew, individual
	(a) Isogamy	(b) Homogamy		(c) Monogamy	,	d) Heterogamy	()
4.	Production of two different stored food material is (a) Isogamy			one is male and mo		other is female non-n	notile having (e) All
5.	The unisexual flower a	re called: (b) Sepellate		(c) Bipinnate	(0	d) Isogametous	(e) Pinnate
6.	The embryo and its foo (a) Cell Wall	od supply are er (b) Seed-coat		by a . (c) Rot-sheath	(0	d) Embryo-wall	(e) Stigma
7.	The embryo of a grass (a) Calatropis	seed is enclos (b) Rhizoids	ed by a	sheath consisting of a (c) Coleorhiza		d) Scotellum	(e) Coleoptile
8.	Kind of inflorescence i (a) Peduncle elongate (d) Spikelet			duncle Flattened		(c) Spadix	
9.	Inflorescence in which (a) Peduncle flattened	•	edicels (of unequal length is ca (c) Spadix		: d) Corymb	(e) Umbel
10.	Cymose inflorescence (a) Monochasial			(c) Corymb	(0	d) Peduncle flattened	(e) Catkin
11.	Dormant means. (a) Awakening (d) Breaking		(b) Sle	eping pporting	(0	c) Frightening	
12.	Maize-grain is an exar (a) Parthenocarpic frui (d) Viviparous Germina	ts		geal Germination parous Germination	(0	s) Hypogeal Germinat	iion
13.	Germination present in (a) Viviparous	n castor oil seed (b) Hypogeal	l:	(c) Oviparous	(0	ੀ) Ovo-viviparous	(e) Epigeal
14.	Germination found in " (a) Viviparous	Coconut", "Paln (b) Hypogeal	ns" is:	(c) Oviparous	(0	d) Ovo-viviparous	(e) Epigeal

15.	Asexual reproduction (a) Binary Fission (d) Parthenogenesis	· (I	parent body split off and grop) Multiple Fission e) Fragmentation	row into new complete o (c) Budding	rganisms Is:	
16.	Type of reproduction v (a) Budding (d) Cloning	(I	ictly asexual nor sexual is: b) Regeneration e) Fission	(c) Parthenogenesis		
17.	Type of asexual repro- (a) Fission (d) Regeneration	(1	n some insects like honey-b b) Budding e) Parthenogenesis	pees, ants and wasps is (c) Fragmentation	called:	
18.	Animals which have of (a) Dioecious	nly one type of go (b) Bisexual	nads are said to be: (c) Monoecious	(d) Hermaphrodites	(e) All	
19.	Process of cell division (a) Gametogenesis (d) Oogenesis	(I	re formed from germ cells po) Soniatogenesis e) Mating	oresent in the ovaries, is (c) Spermatogenesis	called:	
20.	The animals who don't are called: (a) Heterophrodite (d) Oviparous) (I	ain them inside their body, b) Hermaphrodite b) Ovo-viviparous	where they are fertilized (c) Viviparous	and develop,	
21.	The animals in which body of a female are: (a) Heterophrodite (d) Oviparous	(1)	called eggs/ova are produce) Hermaphrodite Ovo-viviparous	uced in the ovaries location (c) Viviparous	ted inside the	
22.	Regarding reproductive organs of a human male, which one is the correct order? (a) Seminiferous tubules → Epididymis → Vas Deferens → Urethra (b) Epididymis → Vas Deferens → Seminiferous Tubules → Urethra (c) Urethra → Vas Deferens → Epididymis → Seminiferous tubules (d) Seminiferous Tubules → Epididymis Urethra → vas Deferens (e) Vas Deferens → Seminiferous Tubules → Urethra → Epididymis					
23.	In male, the external g (a) Seminiferous tubul (d) Penis and Scrotum	e and testis (I	of: b) Testis and Urethra e) Testis and Scrotum	(c) Vas Deferens and	Epididymis	
24.	Concerning Female Reproductive tract, which statement is coned? (a) Ovaries Uterus → Fallopian Tube → Vagina → Cervix Vulva (b) Ovaries → Vagina → Uterus → Vulva → Fallopian tube → Cervix (c) Ovaries → Uterus → Fallopian Tube → Cervix → Vulva → Vagina (d) Fallopian tube → Ovaries → Uterus Cervix → Vagina → Vulva (e) Ovaries → Fallopian tube → Uterus → Cervix → Vagina → Vulva					
25.	The end of fertility in a (a) Menstruation	human female is: (b) Ovulation	(c) Menarche	(d) Menopause	(e) Puberty	
26.	Ovulation in initiated b	y: (b) LH	(c) Estrogen	(d) Progesterone	(e) STH	
27.	Testes produce: (a) Progesterone	(b) Estrogen	(c) Testeron	(d) Yolk sac	(e) FSH	

28.	Ovulation occurs at day: (a) 5 (b) 9	(c) 12	2	(d) 14	(e) 19
29.	The longest phase of menstrual cy (a) Menstrual phase (d) Corpus Luteum phase	cle is: (b) Follicle pl (e) All are ind		(c) Ovulation phase	
30.	Corpus Luteum produces: (a) Progesterone (b) LH	(c) E	strogen	(d) Androgens	(e) FSH
31.	Fertilization in human being is more (a) Conception (b) Miscond	•	ed: lenstruation	(d) Ovulation	(e) Labour
32.	The period starting from conception (a) Conception (b) Gestation	•	of a baby is called astrulation	l: (d) Implantation	(e) Labour
33.	Parthenogenesis is a type of repro- (a) One gamete (b) Two ga		quires: wo eggs	(d) Two-parent	(e) No parent
34.	A clone exactly resembles with: (a) Mother (d) Haploid nucleus recipient	(b) Egg dono (e) All are ind		(c) Diploid nucleus do	nor
35.	"Syphilis" is caused by: (a) Neisseria gonorrhoeae (d) Chlamydia trachomatis	(b) Treponer (e) Rubella V	•	(c) Herpes simplex	
36.	The organic connection between a (a) Umbilical cord (b) Amnion		ryo and its mothe horion	r is called: (d) Mammary glands	(e) Cervix
37.	During a female's fertile years, only (a) 250 (b) 350(c) 450 (d) 660(e) 8		of oocyte	s develop into mature e	eggs.
38.	An animal which possess both fund (a) Monoecious (d) Heterophrodite	ctional testes and (b) Unisexua (e) Ovovivipa	ıl	ed: (c) Dioecious	
39.	Lower mammal undergo seasonal (a) Ovulatory (d) Oestrogenous	cycle. (b) Uterine (e) Oestrous		(c) Ovarian	
40.	"Estrogen" is produced by: (a) Endometrium (b) Myomet	rium (c) O	vary	(d) Fallopian tube	(e) Cervix
41.	The first convoluted part of vas def (a) Epididymis (b) Penis		crotum	(d) Sperm	
42.	When will you call embryo as fetus (a) After two months (b) After thr		fter four months	(d) After five months	
43.	When the sperms are in the tubule (a) Sterol Cells (b) Interstiti	•	and nourishment pididymis	t is provided by: (d) Seminiferous Tubi	ules
44.	The ovary under the influence of Face (a) Progesterone (b) Estroge	•	s a hormone i.e.: xytocin	(d) Corticosteroids	

45.	Which hormone in ma (a) TSH	le stimulates interstitial (b) FSH	cells of testis to secrete (c) ICSH	e testosterone? (d) LH
46.	Corpus leuteum secre (a) Estrogen	etes a hormone called: (b) Progesterone	(c) Oxytocin	(d) Testosterone
47.	In human female, the (a) Ovulation	discharge of blood and (b) Abortion	cell debris called: (c) Menstruation	(d) Secretion
48.	The duration of gestat (a) 250 days	ion period in human fer (b) 260 days	nale is usually: (c) 270 days	(d) 280 days
49.	A light sensitive pigme (a) Cytochrome	ent is plant cell: (b) Phytochrome	(c) Photochrome	(d) Auxin
50.	Ovaviviparityis shown (a) Reptile	by: (b) Bird	(c) Duck bill platypus	(d) Humans
51.	Which one secretes lic (a) Corpus leuteum	quid to protect and nour (b) Sertoli cells	rish sperm cells? (c) Placenta	(d) Epididymis
52.	Which is not a stimulu (a) Distention of cervix (c) Neural stimulus du		(b) Decrease in proge (d) High level of Calcin	
53.	Example of day neutra (a) Tomato	al plant is: (b) Soya bean	(c) Xanthium	(d) Chrysanthemum
54.	Corpus leuteum secre (a) FSH	te a hormone called: (b) LH	(c) Progesterone	(d) Estrogen
55.	Reptile and birds are: (a) Viviparous	(b) Oviparous	(c) Ova-viviparous	(d) Marsupial
56.	In nature P ₇₃₀ to P ₆₆₀ (a) Day	conversion occur in the: (b) Red Light	(c) Dark	(d) Dawn
57.	Which of the following (a) Distension of cervi (c) Neural stimulus du		(b) Decrease i	in progesterone level of calcium ions



SECOND AND DEVELOPMENT

1.	The study of a process of progressive an adult form is:	e changes through which a fert	ilized egg passes before it assume
	(a) Histology(d) Ecology	(b) Embryology(e) Ecdysis	(c) Entomology
2.	Process in which plants develop, result (a) Plasmolysis (d) Germination	llts in the formation of a seed w (b) Deplasmolysis (e) Cytoplasmic localization	hich become a new plant is: (c) Fertilization
3.	In the higher plants, growth is confine (a) Meristems (d) Mesostems	ed to certain regions called the: (b) Cyclostems (e) Epistems	(c) Peristems
4.	The increase in thickness of stems and (a) Primary Growth (d) Quaternary Growth	nd roots due to activity of lateral (b) Secondary Growth (e) All are incorrect	meristems is called: (c) Tertiary Growth
5.	Secondary growth is the increase in d (a) Epidermis (d) Cortex	iameter of stems and roots due (b) Phloem (e) Xylem	e to activity of secondary meristem: (c) Cambium
6.	The phase restricted to the tips of ronumber is: (a) Formative Phase	oots and shoots, where the ce (b) Elongation Phase	Ils constantly divided & increase, in (c) Maturation Phase
	(d) Differentiation Phase	(e) Permanent Phase	
7.	Most of the enzyme work optimally in (a) 5 °C to 10 °C (d) 28 °C to 30 °C	between: (b) 10 °C to 15 °C (e) 25 °C to 37 °C	(c) 18 °C to 28 °C
8.	Plant hormone "AUXIN" is: (a) Acetic Acid (d) Indole Acetic Acid	(b) Ethyl Acetic Acid (e) Mendelic Acetic Acid	(c) Methyl acetic Acid
9.	Most common correlation found in pla (a) Seed dominance (d) Peduncle dominance	nt is: (b) Shoot dominance (e) Androecium dominance	(c) Apical dominance
10.	The removal of apex releases the late (a) Inhibitory Effects (d) Comprehension Effect	eral buds from apical dominance (b) Compensatory Effects (e) Conversion Effects	e is called: (c) Compression Effects
11.	In higher plants, the phase lies behind (a) The Formative Phase (d) Ovulation Phase	the region of elongation is: (b) Elongation Phase (e) Degeneration Phase	(c) Maturation Phase

12.	(a) High intensity of light des(b) Quality of light has no infl(c) Duration of light affects th(d) Without light, photosynthe	luence on growth rate. ne growth of vegetative and reprod	uctive structures.	
13.	Vernalization is related to: (a) Very High Temperature (d) Low Temperature	(b) High Temperature (e) Optimum Temperatu	(c) Moderate Temperature re	
14.	Promotion of flowering by a case (a) Vernalization (d) Apoptosis	cold treatment given to the imbibed (b) Imbibition (e) Germination	d seeds or young plants is: (c) Photoperiodism	
15.	Animals begin their lives as s (a) Embryo (d) Gastrula	single, diploid cells called: (b) Fetus (e) Larva	(c) Zygote	
16.	 (b) Blastula → Gastrula → C (c) Cleavage → Zygote → G (d) Zygote → Cleavage → G 	yonic life: [In order] slastula → Gastrula → Morula → O Cleavage → Morula → Zygote → O Sastrula → Morula → Blastula → O Sastrula → Blastula → Morula → O Morula → Blastula → Gastrula → O	rganogenesis rganogenesis rganogenesis	
17.		, different daughter cells receive di leavage (c) Gastrulation	fferent regions of ovum's cytoplasm i (d) Organogenesis (e) Gro	
18.		d re-arrangements produce two or leavage (c) Gastrulation	three primary tissues or germ layer is (d) Organogenesis (e) Gro	
19.	Increase In the size of organ (a) Fertilization (b) C	ns to attain maturity is: leavage (c) Gastrulation	(d) Organogenesis (e) Gro	owth
20.	Sub-populations of cells which (a) Fertilization (d) Organogenesis	ch are sculpted into specialized org (b) Cleavage (e) Growth	gans and tissues is: (c) Gastrulation	
21.	The part of apical meristem (a) Sub-apical meristem (d) Intercalary meristem	which become separated from by p (b) Lateral meristem (e) Nodal meristem	permanent tissue called: (c) Medial meristem	
22.	The egg of bird is of (a) Polylecithal (d) Trilecithal	type. (b) Monolecithal (e) Unilecithal	(c) Telolecithal	
23.	(a) Fertilization is internal in(b) Outside the albumen, the present(c) The egg is laid 24 hours at(d) Cleavage in hen is of disc	ere is one shell membrane and ha after the fertilization coidal type	rd proteinaceous calcareous membra	

24.	In hen, process of development red (a) 20 °C (b) 28 °C	quires the fertilized eggs to be (c) 32 °C	kept at: (d) 34 °C	(e) 37 °C
25.	The embryonic stage which contain (a) Cleavage (b) Morula	ns a fluid-filled "segmentation o (c) Blastula	cavity" is: (d) Gastrula	(e) Zygote
26.	The marginal cells of blastoderm lie (a) Area - opaca (d) Area- germinate	e unseparated from yolk and fo (b) Area pellucid (e) Area- phellogen	orm zone of junction with (c) Area - epiblastu	_
27.	Rearrangement of cells of the "area (a) Endoderm (d) Ectoderm	a pellucida" of blastoderm give (b) Mesoderm (e) Sub-Ectoderm	es rise to: (c) Sub-Endodam	
28.	Number of cells of epiblast pass th new layer of cells, called:	rough the primitive streak, mo	ove laterally into the blas	stocoel to form a
	(a) Endoderm (d) Ectoderm	(b) Mesoderm(e) Sub-Ectoderm	(c) Sub-Endodam	
29.	Ectoderm is formed by the cells of: (a) Mesoblast (b) Periblasi		(d) Monoblast	(e) Uniblast
30.	Muscles, axial skeleton and connect (a) Mesomeres (d) Epimeres	ctive tissue arises from: (b) Metameres (e) Blastomeres	(c) Hypomeres	
31.	The process of formation of neural (a) Blastrulation (d) Neurogenesis	tube is known as: (b) Blastulation (e) Neuro-regulation	(c) Neurulation	
32.	The process of selection of activation the embryo Is:	on of some genes by a cell, w	hich are not activated by	other cells of
	(a) Cell development(d) Cell Differentiation	(b) Cell Growth (e) Cell Induction	(c) Cell Division	
33.	The grey crescent area is present: (a) Just below to the point of entrar (b) Just above to the point of entrar (c) Just opposite to the point of entrar (d) Just adjacent to the point of entrar (e) All statements are incorrect	nce of sperm nucleus in the over rance of sperm nucleus in the	vum ovum	
34.	As a result of first cleavage, the zyo (a) Vertically into two daughter cells (c) Obliquely Into two daughter cells (e) Horizontally into four daughter of	(b) Horizontally int s (d) Vertically into f	to two daughter cells our daughter cells	
35.	The process of progressive deterior (a) Necrosis (d) Apoptosis	ration in the normal structure a (b) Dysgenesis (e) Aging	and function of tissues is (c) Disfigurement	called:
36.	The outcome of cleavage is due to: (a) Fertilization (d) Cytoplasmic localization	(b) Gamete Formation (e) Incubation	(c) Organogenesis	

37.	In bryophytes, growth takes place at: (a) Apices (d) Entire plant body	(b) Lateral region (e) All are incorrect	(c) Intercalary region
38.	Reconstruction of the lost parts of the (a) Resuscitation (d) Maturation	body is: (b) Dysgenesis (e) Formation	(c) Regeneration
39.	The study of abnormalities present du (a) Embryology (d) Entomology	rring the embryological develop (b) Teratology (e) Immunology	ment is: (c) Tetralogy
40.	The egg of chick is laid at this stage: (a) Zygote (d) Gastrula	(b) Cleavage (e) Blastula	(c) Morula
41.	Cytoplasmic localization is a consequ (a) Fertilization (d) Gastrula	ence of: (b) Cleavage (e) Blastula	(c) Morula
42.	The blastoderm splits into: (a) Epiblast and Hypoblast (d) Epiblast and Epimere	(b) Epimere and Hypomere (e) Hypomere and Mesomere	(c) Mesomere and Epimere
43.	The phenomenon in which one embry (a) Morulation (d) Cleavage	vonic tissue influences upon the (b) Embryonic Induction (e) Gastrulation	other is: (c) Neurulation
44.	The disorder in which there is excession (a) Dextrocardia (d) Tetralogy	ve number of fingers or toes are (b) Klinefelter's Syndrome (e) Down's Syndrome	e present, is called: (c) Polydactyly
45.	Mental and physical retardation is: (a) Cleft lip and plate (d) Klinefelter's Syndrome	(b) Polydactyly(e) Down's Syndrome	(c) Turner's Syndrome
46.	Inability of the blood to clot is: (a) Hemophilia (d) Anemia	(b) Thalassemia (e) Polycythemia	(c) Sickle Cell Anaemia
47.	In birds and mammals, regeneration tissue, called: (a) Papules (b) Pustules	is mostly liniited to the small (c) Scar	wounds by the formation of a new (d) Scab (e) Nodule
48.	The science of aging is known as (a) Entomology (d) Immunology	(b) Gerontology (e) Dactylography	(c) lchthyology
49.	Morula resembles a: (a) Strawberry (d) Mulberry	(b) Cherry (e) None	(c) Raspberry
50.	The larval epidermis is formed from: (a) Clear Cytoplasm (c) Gray Vegetal Cytoplasm	(b) Yellow Cytoplasm (d) Gray Equatorial Cy	rtoplasm

51. In plants elongation of cells is favored by:

(a) Infrared Light (b)

(b) Red Light

(c) Blue Light

(d) Ultraviolet light

52. Cleavage results in the formation of rounded closely packed mass of blastomeres called:

(a) Blastula

(b) Morulla

(c) Gastrula

(d) Neurula

53. Somites are formed and organized by:

(a) Ectoderm

(b) Mesoderm

(c) Endoderm

(d) Blastoderm





>>> CHROMOSOMES AND DNA

1.	Darkest colour organe (a) Mitochondria (d) Lysosomes	lle present in a		romosomes	(c) Ribosomes	
2.	Chromosome is a bea	arer of hereditar (b) Phosphoric	-	cters in the form of: (c) Ribonucleic acid	(d) Histones	(e) Genes
3.	Cells used which comp (a) DNA	oonent to make (b) Nucleus	protein:	(c) Lysosomes	(d) Chromosomes	(e) RNA
4.	Number of Chromosor (a) 2	nes present in a (b) 6	a frog:	(c) 14	(d) 26	(e) 28
5.	Number of Chromosor (a) 2	mes present in N (b) 6	Mosquito	o: (c) 14	(d) 26	(e) 2
6.	Number of Chromosor (a) 14	mes present in h (b) 26	numan is	s: (c) 38	(d) 42	(e) 46
7.	Number of Chromosor (a) 14	mes present in S (b) 26	Sugar ca	ane is: (c) 46	(d) 80	(e) 86
8.	Number of Chromosor (a) 260	mes present in F (b) 500	Fern is:	(c) 750	(d) 1,000	(e) 10,000
9.	Number of Chromosor (a) 14	mes present in ((b) 26	Garden	Pea is: (c) 32	(d) 44	(e) 48
10.	Each Chromosome co (a) Chromosomes (d) Chromonema	nsists of two ve	(b) Chi	hreads called: romatids etochores	(c) Centromere	
11.	The two chromatids of (a) Co-chromatids (d) Non-sister chromat		(b) Da	es re called: ughter chromatids n-daughter chromatids	(c) Sister chromatids	
12.	The chromatids of two (a) Chromonema (d) Non-sister chromat		(b) Da	s are called: ughter chromatids n-daughter chromatids	(c) Sister chromatids	
13.	In moths and birds, set (a) XX	ex chromosoma (b) XY	l pattern	n in females is: (c) ZW	(d) ZZ	(e) ZX
14.	In moths, birds and so (a) WZ	me fishes, sex of (b) YW	chromos	somal pattern in males i (c) XZ	s: (d) ZZ	(e) ZW

15. The particular array of chromosomes that an Individual possess is called its:					
	(a) Karyotype	(b) Cytotype	(c) Pneumotype		
	(d) Chromotype	(e) Centrotype			
16.	The most abundant chromosomal prof				
	(a) Cytokinins	(b) Giberellins	(c) Histones		
	(d) Globulin	(e) Albumin			
17.	Most eukaryotic chromosomes are ab		(.) 000((.) 0.400	V DNA	
	(a) 20% proteins & 80% DNA	(b) 80% DNA & 20% proteins	(c) 90% proteins & 109	% DNA	
	(d) 50% proteins & 50% DNA	(e) 60% proteins & 40% DNA			
18.	The observations is arranged in	nattarn			
10.	The chromosome is arranged in	pattern.			
	(a) Circular(b) Longitudinal				
	(c) Helical (d) Oval (e) Vertical				
	(d) Ovai (e) Vertical				
19.	Highly condensed portions of the chro	omatin are called:			
10.	(a) Homochromatin	(b) Heterochromatin	(c) Cytochromatin		
	(d) Monochromatin	(e) Euchromatin	(o) Oytoomomatin		
	(a) Monodinami	(c) Edomoniaum			
20.	Portion of chromatin, which is not con-	densed except during cell divisi	on is:		
	(a) Hypochromatin	(b) Homochromatin	(c) Heterochromatin		
	(d) Euchromatin	(e) Epichromatin	(0) 1.010.000		
		(-)			
21.	"DNA is the genetic material in phage,	, transmitted from one generation	on to the next" is observ	ed by:	
	(a) Schielden and shwann	(b) Hershey and Chase	(c) F. Griffith	-	
	(d) Avery, Macleod and McCarty	(e) Karis Correns and Walter S	Sutton		
22.	"Molecular model of DNA" was sugges	sted by:			
	(a) Watson and Crick	(b) Hershey and Chase	(c) F. Griffith		
	(d) Avery, Macleod and McCarty	(e) Correrns and Sutton			
23.	If the sequence of one chain is 'ATTG		- ·	e:	
	(a) TAATGCA	(b) TACAGCA	(c) TAACGTA		
	(d) TAAGCAT	(e) TAATGTA			
24.	The two polynucleotide strands of DNA			() 00 10	
	(a) 6 A° (b) 10 A°	(c) 15 A°	(d) 20 A°	(e) 30 A°	
25	One complete turn of DNA contains				
25.	One complete turn of DNA contains _		(a) 4F	(a) 00	
	(a) 2 (b) 5	(c) 10	(d) 15	(e) 20	
26.	Post proceed in PNA but not in DNA is				
20.	Best present in RNA but not in DNA is (a) Adenine (b) Guanine	c) Cytosine	(d) Uracil	(e) None	
	(a) Adefilite (b) Gdafilite	(c) Cytosine	(u) Oracii	(e) None	
27.	To specify an amino acid genetic code	e has bases.			
21.	(a) One (b) Two	(c) Three	(d) Four	(e) Five	
	(a) 5116 (b) 1 W5	(6) 111100	(a) i oui	(0) 1 100	
28.	DNA is made of billions of units called	:			
	(a) Nucleosides	(b) Histones	(c) Chromosomes		
	(d) Nucleotides	(e) Phosphoric Acid Residues	, , , , , , , , , , , , , , , , , , , ,		
		., 1			
29.	Each nucleotide occupies distance ald	ong the length of a polynucleotic	de strand.		
	(a) 10 A° (b) 20 A°	(c) 24 A°	(d) 30 A°	(e) 15 A°	

30.	Genetic disorder in which urine containing homogentisic acid and turned black on exposure to air is:						
	(a) Hemoglobinuria(d) Proteinuna	(b) Alkaptonuria (e) Phenylketonuria	(c) Homocystinuria				
31.	The first stage of gene expre	ession is					
	(a) Transcription	(b) Transformation	(c) Translation				
	(d) Transduction	(e) Translocation					
32.	The second stage of gene explace is:	xpression in which mRNA-directed p	olypeptide synthesis by ribosomes takes				
	(a) Transcription	(b) Transformation	(c) Translation				
	(d) Transduction	(e) Translocation					
33.	"Start Codon" is:						
	(a) UAG (b) U	AA (c) UGA	(d) UGG (e) AUG				
34.	If a small segment of chrom	osome may be missing, a situation o	called:				
	(a) Deletion	(b) Duplication	(c) Diversion				
	(d) Translocation	(e) Inversion					
35.	If a part of chromosome be p	present in excess to the normal chror	nosome, a condition called:				
	(a) Deletion	(b) Duplication	(c) Diversion				
	(d) Translocation	(e) Inversion					
36.	The transfer of segment of	hromosome to a non-homologous ch	nromosome is called:				
	(a) Deletion	(b) Duplication	(c) Transformation				
	(d) Translocation	(e) Inversion					
37.	Reduce crossing over is pres	sent in:					
	(a) Translocation	(b) Inversion	(c) Deletion				
	(d) Duplication	(e) Transformation					
38.	The DNA get damage by all	-					
	(a) X-rays	(b) Gamma rays	(c) Free radical				
	(d) Ultraviolet rays	(e) Ultrasonic rays					
39.		to presence of defective Hemoglobi					
	(a) Hemophilia	(b) Thalassemia	(c) Thrombocytopenia				
	(d) Sickle Cell Anaemia	(e) Polycythemia					
40.	Hereditary condition in wh phenylanaline is:	ich the affected individuals are u	nable to break down the amino acid				
	(a) Homocystinuria	(b) Alkaptonuria	(c) Phenylketonuria				
	(d) Hemoglobinuria	(e) Uricosuria					
41.	Anticodons comprises of:						
	(a) DNA molecules	(b) r-RNA molecules	(c) mRNA molecules				
	(d) t-RNA molecules	(e) All are incorrect					
42.	Codons comprises of:						
	(a) DNA molecules	(b) r-RNA molecules	(c) mRNA molecules				
	(d) t-RNA molecules	(e) All are Incorrect					
43.	Sequence of two bases per a	amino acid gives possible combination	ons of bases.				
	(a) 8 (b) 12	2 (c) 16	(d) 36 (e) 48				

44.	Sequence of three bases (a) 12	ses per amino a (b) 16	cid give:	s possible comb (c) 36	inations	of bases. (d) 58		(e) 64
45.	"The t-RNA possess phenomenon is known (a) Coding (d) Transcription		(b) Dec	•	nino aci	d site and (c) Recodii		mRNA". This
46.	Transcription is initiate (a) DNA synthetase (d) RNA polymerase	ed by a special e	enzyme, (b) RN			(c) DNA po	olymerase	
47.	"One gene-one enzym (a) Watson and Crick (d) Avely, Maclood & I		(b) Her	ed by: shey and Chase rens and Sutton		(c) Beadle	and Tatum	
48.	The total genomic cor (a) Genetics	stitution of an in (b) Genome	dividual	is known as: (c) Geriatrics		(d) Codons	5	(e) Mutagen
49.	Which one of the follo	wing is stop sigr (b) GA	nal durin	g transcription? (c) GC		(d) TA		
50.	Phenylketonuria is we (a) Deletion	II known examp (b) Inversion	le of:	(c) Insertion		(d) Point m	nutation	
51.	In 1882, Chromosome (a) John Brown	es were first obs (b) T.H. Morga	-	/: (c) Walther Flei	ming	(d) Walter	Sutton	
52.	A gene starts with initi	ation codon, wh (b) UAG	ich enco	odes the amino a (c) AUG	acid me	thionine: (d) UGG		
53.	Supporting role in DNA (a) RNA Polymerase (c) DNA polymerase II		cess pla	ayed by an enzy (b) Amino acety (d) DNA polymo	yl t-RNA		Э	
54.	Every 200 nucleotides complex called:	the DNA duple	x is coile	ed around the co	ore of 8	histone prot	teins and fo	rms a
	(a) Polysome	(b) Heterochro	mtin	(c) Nucleosome	e	(d) Euchro	matin	



1.	"All cells come from the Pre-existing of (a) Michael Schwann (d) Hershey & Chase	g cell", this statement was proposed by: (b) F. Griffith (c) Watson & Crick (e) Rudolf Virchow					
2.	Each round of cell growth and cell-div (a) Growth Curve (d) Maturation Phase	division is called: (b) Cell Cycle (c) Cell Growth Hypothesis (e) One Gene - One Enzyme Hypothesis					
3.	The non dividing initial phase of the c (a) Interphase (d) G ₁ Phase	ycle as the interval between two divi (b) Prophase (e) Mitotic Phase	sions is called: (c) G ₀ Phase				
4.	Phase of Interphase where no DNA s (a) G_0 (b) G_1	eynthesis occurs is: (c) S (d)	M (e) None				
5.	Cells remain visible and metabolically (a) G_0 (b) G_1	active but do not divide in sub-stage (c) S (d)					
6.	DNA synthesis takes place in sub-state (a) G ₀ (b) G ₁	ge. (c) S (d)	M (e) None				
7.	In the cell cycle, the most variable su (a) G_0 (b) G_1	b-stage is: (c) S (d)	M (e) G ₂				
8.	Interphase consists of following sub-section (a) G_1 , G_2 , S (d) G_2 , S , G_1	stages, the correct sequence is: (b) S, G ₁ , G ₂ (e) S, G ₂ , G ₁	(c) G ₁ , S, G ₂				
9.	Concerning cell division and cell cycle, which statement is incorrect? (a) After completion of interphase, mitosis is a dynamic period of vigorous activity (b) Cytokinesis is usually followed by karyokinesis (c) In early O ₂ sub-stage ribosomes are spindle formation (d) The S sub-stage is followed by G ₁ sub-stage (e) The G sub-stage is followed by G ₀ sub-stage						
10.	Cell-division without the formation of (a) Amitosis (d) Interphase	spindle is called: (b) Mitosis (e) Apoptosis	(c) Meiosis				
11.	In the amitotic cell division, when the is referred to as:	nuclear portions divide more than to	vo in number, the phenomeno				
	(a) Karyokinesis(d) Nuclear Fragmentation	(b) Karyotyping (e) Nuclear Localization	(c) Nuclear Budding				
12.	In amitotic cell division, when the nuc (a) Karyokinesis (d) Nuclear Localization	lear portions are unequal in size, the (b) Karyolysis (e) Nuclear Fragmentation	process is generally called: (c) Nuclear Budding				

13.	Programmed cell death in which the cell responds to certain signals by initiating a normal response that leads to cell death is:				
	(a) Cell Induction(d) Apoptosis	(b) Necrosis(e) Cellular Dysgenesis	(c) Inflammation		
14.	Death of living cells that result from iso (a) Autophagy (d) Apoptosis	chemic tissue injury is called: (b) Necrosis (e) Amitosis	(c) Inflammation		
15.	Correct sequence of stages of mitosis (a) Prophase → Anaphase → Metaph (b) Prophase → Metaphase → Anaph (c) Metaphase → Anaphase → Prophase (d) Telophase → Prophase → Anaphase (e) Anaphase → Prophase → Telophase	ase → Telophase ase → Telophase ase → Telophase ase → Metaphase			
16.	Cell carry out self destruction in the ab (a) Autophagy (d) Necrosis	osence of survival signals is: (b) Heterophagy (e) Apoptosis	(c) Inflammation		
17.	The nuclear envelop breakdown and a (a) Interphase (d) Anaphase	a network of microtubules forms between (b) Prophase (e) Telophase	en opposite poles of the cell: (c) Metaphase		
18.	Short fibers of mitotic apparatus radiat (a) Continuous spindle fibres (d) Astral fibres	ting from the centrioles only at poles ar (b) Long spindle fibres (e) Discontinuous spindle fibres	e called: (c) Half spindle fibres		
19.	Spindle fibres running from pole to pol (a) Continuous spindle fibres (d) Discontinuous spindle fibres	e are called: (b) Half spindle fibres (e) All are incorrect	(c) Astral fibres		
20.	Chromosomes arrange themselves at (a) Interphase (d) Anaphase	the equatorial plane of the spindle duri (b) Prophase (e) Telophase	ing: (c) Metaphase		
21.	Stage of mitosis characterized by physical Interphase (d) Anaphase	sical separation of sister chromatids is: (b) Prophase (e) Telophase	(c) Metaphase		
22.	Stage of mitosis during which the established is: (a) Interphase (d) Anaphase	mitosis apparatus assembled and the (b) Prophase (e) Telophase	ne nuclear envelope is re- (c) Metaphase		
23.	In animals, the mitosis is: (a) Amphi-astral (d) Pro-astral	(b) An-astral (e) Poly-astral	(c) Uni-astral		
24.	In plant cells, the mitosis is: (a) Amphi-astral (d) Pro-astral	(b) An-astral (e) Poly-astral	(c) Uni-astral		
25.	Mutations of cellular genes that contro (a) Syphilis (d) Small pox	ol cell growth and cell mitosis leads to: (b) Leprosy (e) Erythema nodosum	(c) Cancers		

26.	The sub-stage initiates meiosis: (a) Zygotene (d) Leptotene	(b) Diplotene (e) Diakinesis	(c) Pachytene	
27.	Synapsis takes place in sub-stage: (a) Leptotene (d) Diplotene	(b) Zygotene (e) Diakinesis	(c) Pachytene	
28.	Tetrads formation occur in sub-stage (a) Leptotene (d) Diplotene	e: (b) Zygoene (e) Diakinesis	(c) Pachytene	
29.	Chiasmata formation crossing overtak (a) Leptotene (d) Diplotene	kes place in substage: (b) Zygotene (e) Diakinesis	(c) Pachytene	
30.	Sub-stage characterized by the disal spindle apparatus and separation of be (a) Leptotene (d) Diplotene	• •	brane, nucleolus and o	completion of
31.	The two sets of chromosomes reach (a) Leptotene (d) Anaphase I	the opposite pole of the cell in: (b) Diplotene (e) Diakinesis	(c) Metaphase	I
32.	Chromatid becomes "Monad" in: (a) Telophase I (d) Metaphase II	(b) Anaphase I (e) Anaphase II	(c) Prophase I	I
33.	The attachment site on the chromoso (a) Cell Plate (b) Aster	me for pulling chromosome apa (c) Centriole	art during mitosis is: (d) Kinetochore	(e) None
34.	The failure in the separation of the ho (a) Non-disjunction (d) Polyploidy	omologous chromosomes due to (b) Heteroploidy (e) Aneuploidy	o meiotic errorknown as (c) Monoploidy	
35.	A change in an individual in which ch (a) Non-disjunction (d) Homoploidy	nromosomes may be added or s (b) Polyploidy (e) Euploidy	subtracted is: (c) Aneuploidy	,
36.	Klinefelters Syndrome is: (a) XX (b) XXX	(c) XO	(d) XYY	(e) XXY
37.	"Down's Syndrome" is: (a) Monosomy 18 (d) Trisomy 21	(b) Monosomy 21 (e) Trisomy 26	(c) Trisomy 19	
38.	"Turner's Syndrome" is: (a) XX (b) XXX	(c) XO	(d) XYY	(e) XXY
39.	A diploid cell contains in its nucleus: (a) An even number of chromosomes (b) An odd number of chromosomes (c) One copy of each homologues (d) Either an even or an odd number of (e) All are incorrect			

40.	Mitotic apparatus is formed during of contact (a) Interphase (d) Anaphase		ell division. (b) Prophase (e) Telophase	(c) Metaphase	
41.	Which one is absent in (a) Spindle	n animal cell: (b) Centriole	(c) Chromatids	(d) Pharagmoplast	
42.	The syndrome having (a) Down's	trisomy of chrom (b) Patau's	osome No. 18 is: (c) Edward	(d) Jacob's	
43.	The spindle fibers are (a) Insulin	composed of RN (b) Tubulin	IA and protein called: (c) Actin	(d) Myosin	
44.	Individuals with Klinefe (a) XO	elter syndrome ha (b) XXO	ave sex chromosomes as foll (c) XXY	lowing: (d) XXXY	
45.	Synapsis starts during (a) Leptotene	: (b) Zygotene	(c) Pachytene	(d) Diplotene	
46.	The condensation of c	hromosomes rea (b) Zygotene	ches to its maximum at: (c) Pachytene	(d) Diakinesis	
47.	The autosomal non-disjunction in man in which 21st pair of chromosome fails to segregate, resulting in gamete with 24 Chromosome is called:				
	(a) Down's syndrome (c) Klinefelter's Syndrome	ome	(b) Turner's Syndrom (d) Jacob's Syndrom		



>>> VARIATION AND GENETICS

1.	Mendel's hereditary factor "genes" a (a) Mitochondria (d) Lysosomes	are located on: (b) Nuclear membrane (e) Cytoplasmic membrane	(c) Chromos	somes
2.	Basic units of inheritance are: (a) Chromosomes (b) Nucleus	(c) Nucleolus	(d) Nuclear membra	ane (e) Genes
3.	The total aggregate of genes in a po (a) Gene pool (d) Gene square	opulation at any one time is calle (b) Gene target (e) Gene aggregation	ed the populations (c) Gene cy	cle
4.	Genes that occupies a specific posit (a) Alleles (b) Locus	tion called: (c) Gene pool	(d) Linkage	(e) Synapsi
5.	"Law of Dominance" was derived by (a) T. H. Morgan (b) G. J. Mer		(d) Bateson	(e) Lamarck
6.	The phenotypic ratio of plants with d (a) 1:2 (b) 2:1	dominant character to those with (c) 1:1	n recessive character a	always close to: (e) 1:3
7.	Separation of genes is called. (a) Assortment (d) Inheritance	(b) Dominance (e) Gene pool	(c) Segrega	ition
8.	"Law of purity of gametes" is: (a) Law of Dominance (d) Law of Segregation	(b) Law of Recessiveness (e) Law of Independent Asso	(c) Pleiotrop ortment	ру
9.	"Each gamete contains only one alle (a) Pleiotropy (d) Law of Dominance	ele of a particular character and (b) Epistasis (e) Law of Independent Asso	(c) Law of S	
10.	"The members of one pair of genes (a) Law of independent Assortment (d) Law of Dominance	segregate independently of the (b) Pleiotropy (e) Epistasis	other pairs", this is: (c) Law of S	Segregation
11.	Mendel perform his famous experim (a) Bean plants (b) Castor plants	-	(d) Mirabilis plant	(e) Maize
12.	Cross fertilization of a phenotypically (a) Incomplete dominance (d) Epistasis	y dominant individual with a hor (b) Test cross (e) None	mozygous recessive in (c) Co-domi	
13.	Incomplete dominance is also known (a) Primary Inheritance (d) Independent inheritance	n as: (b) Secondary Inheritance (e) Dependent Inheritance	(c) Intermed	diate nheritance

14.	"None of the two genes is dominant	t over the other", this phenomenor	n is:	
	(a) Test Cross(d) Epistasis	(b) Co-dominance(e) Pleiotropy	(c) Incomp	lete dominance
15.	Both alleles of a contrasting charact neither masking the effect of one an	•	nselves in heteroz	ygous individuals
	(a) Test Cross(d) Law of Segregation	(b) Phenomenon of Inheritance (e) Law of Independent Assorti	• •	ninance
16.	A gene for a trait having three or mo	ore allelic forms is called	alleles.	
	(a) Recessive (b) Unilocula		(d) Double	(e) Single
17.	A well known example of multiple all (a) Skin colour (d) Blood groups	leles in human beings is that of the (b) Height (e) Rhesus factor	e: (c) Flair te:	xture
18.	Cross appearance of intermediate contains (a) Co dominance (d) Test cross	haracter is known as: (b) Incomplete dominance (e) Pleiotropy	(c) Epistas	is
19.	Blood group, also known as '"Univer (a) Blood group A ⁺ (d) Blood group AB ⁺	rsal Donor" is (b) Blood group O ⁺ (e) Blood group B ⁻	(c) Blood (group B+
20.	Blood group also known as "Univers (a) Blood group A ⁺ (d) Blood group AB ⁺	cal Recipient" is: (b) Blood group O ⁺ (e) Blood group B ⁻	(c) Blood (group B+
21.	Each human being possesses(a) 21 (b) 22	pairs of chromosome (c) 23	s. (d) 24	(e) 26
22.	"Rh" stands for:			
	(a) Rhesus Factor(d) Rhesus Heamatin	(b) Rhesus Gene(e) Rhesus Type.	(c) Rhesus	s Pool
23.	When a colour blind male marries a (a) All the sons, will be normal & dau (b) All sons are colour blind & daugh (c) All the daughters will be colour bl (d) All the sons and daughters will be (e) All the sons and daughters will be	ughter colour blind hters normal but carriers linds & sons normal but carriers e colour blind		
24.	In Erythroblastosis foctalis: (a) Mother is R ^h positive and father R (c) Father is R ^h positive and mother (e) Mother and father are both R ^h po	R ^h negative (d) Mother and	father both are R ^h father both are R ^h gative	•
25.	Suppressive influence of any genetic (a) Epistasis (d) Test Cross	c factor on another that is not its a (b) Co dominance (e) Pleiotropy		lete Dominance
26.	Traits that are controlled by two or n		enes, which manife	est themselves in
	an additive fashion to yield continuor(a) Epistasis(d) Intermediate Inheritance	usly varying traits, this is: (b) Pleiotropy (e) Co-dominance	(c) Polyge	nic Inheritance

27.	The multiple effects of a single gen- (a) Epistasis (d) Test Cross	e or allele are termed: (b) Pleiotropy (e) Polygenic Inheritance	(c) Co dom	iinance
28.	Pairs of chromosomes found in Dro (a) Two (b) Three	osophila: (c) Four	(d) Five	(e) Six
29.	The tendency of genes in a chromo (a) Linkage (d) Crossing over	osome to remain together is o (b) Synapsis (e) Hybridization	called: (c) Pleiotro	ру
30.	During meiosis, the homologous ch (a) Linkage (d) Crossing over	nromosomes come together a (b) Synapsis (e) Epistasis	and form pairs, a process (c) Pleiotro	
31.	Mutual exchange of segments of ch (a) Linkage (d) Crossing over	nromosomes is called: (b) Synapsis (e) Epistasis	(c) Pleiotro	ру
32.	Number of chromosomes present in (a) 16 (b) 20	n Male Grasshopper: (c) 23	(d) 24	(e) 26
33.	Number of Autosomes present in h (a) 38 (b) 40	umans: (c) 42	(d) 44	(e) 46
34.	The human female possesses a ge (a) 40 + XY (b) 40 + XX	-	(d) 43 + XX	(e) 44 + XY
35.	The human male possesses a gen (a) 40 + XY (b) 40 + XX		(d) 42 + XY	(e) 46 + XY
36.	Any genetic trait which is transmitted (a) Single Trait Inheritance (d) Inheritance of Two Traits	ed through sex chromosomes (b) Sex Linked Inheritance (e) Autosomal Inheritance	ce (c) Interme	diate Inheritance
37.	Sex determination in Drosophila wa (a) T. H. Morgan (d) Gregor John Mendel	as done by: (b) Rudolf Virchow (e) Matthew Mesclson	(c) Batesor	١
38.	Acquiring of information about the from the pattern of its inheritance is		pers to infer the genetic	nature of a trait
	(a) Maternal analysis(d) Chromosomal analysis	(b) Paternal analysis(e) Genes analysis	(c) Pedigre	e analysis
39.	Persons suffering from colour blind (a) Blue from green (d) Red from Yellow	ness hae difficulty in distingu (b) Red from blue (e) Red from Green	•	from Orange
40.	Regarding colour blindness, "who statement? (a) All daughter will be colour blind (b) All sons will be colour blind (c) All daughters are normal but call (d) Half of the sons will be colour blind (e) Half of the daughter will be colour	rriers lind	; carrier female", which	n is the correct

41.	Diabetes Mellitus is ca	used by a deficien (b) Glucagon	ncy of:	(c) Thyroid	(d) Aldosterone	(e) Insulin
42.	Type II Diabetes Mellit (a) 20	tus usually occurs at (b) 30	after a	about age: (c) 40	(d) 50	(e) 60
43.	The result obtained from (a) Test Cross (d) Single trait inherita	(b) Inte	spoken as rmediate Inheritance dominance	(c) Inheritance	of two traits
44.	white-eyed, this is ratio	o of:			the F2 generation show	-
	(a) 4:1	(b) 1:1		(c) 1:3	(d) 2:1	(e) 3:1
45.	Locus is a: (a) Part of DNA	(b) Position of ge	ene	(c) Partner of gene	(d) Complement of ger	ne
46.	A genome is a full set (a) a cell	of genes of: (b) a tissue		(c) an individual	(d) a population	
47.	Full set of genes of an (a) gene pool	individual is called (b) Genome		(c) Phenotype	(d) Genotype	
48.	The genic system of d (a) Gingko	etermination of sex	x is pr	resent in: (c) Drosophila	(d) Protenor bug	
49.	The individual which a	re universal recipie (b) B	ents h	ave blood group: (c) AB	(d) O	
50.	ABO blood group syst (a) Punnet	em was first discov (b) Wiener	vered	in 1901 by: (c) Bernstein	(d) Landsteiner	
51.	Bobbed gene in Droso (a) X Chromosome	ophila is present in: (b) Y Chromosom		(c) Both on X and Y	(d) Autosome	
52.	Novel phenotype of 4' (a) Complete Dominar (c) Co dominance	•	er is a	an example of: (b) Incomplete Domina (d) Over Dominance	ance	
53.	The blood serum conta (a) Antigen	aining antibodies is (b) Immunoglobul		ed: (c) Plasma	(d) Antisera	



≫≫BIOTECHNOLOGY

1.	Rules to explain "th (a) T. H. Morgan	ne phenomenon (b) G. J. Mer	of inheritance of biological ch ndel (c) Rudolf Virchov		ulated by: (e) Lamarck
2.	Genetic research w (a) 1951-53	as activated and (b) 1961-63	a revolution in modern biolo (c) 1971-73	gy occurred in the year (d) 1975-71	: (e) 1981-83
3.	Genetic engineerin (a) Bacteria	g usually utilizes (b) Viruses	cells and plasmids of: (c) Algae	(d) Fungi	(e) Parasite
4.	"rDNA" is: (a) Ribosomal DNA (d) Regenerate DN		(b) Riorazion DNA (e) Recombinant DNA	(c) Resolu	ition DNA
5.	DNA molecule into (a) Activator	which a gene is (b) Initiator	inserted to construct a recom (c) Accelerator	nbinant DNA molecule is (d) Starter	s: (e) Vector
6.	(b) They are found (c) They can replica (d) Plasmids do no	chromosomal cit in some bacteria ate independent t carry any genes	cular DNA molecules.	seful characteristics.	molecules.
7.	Enzymes which are a gap where foreign		a source DNA molecule into are:	small pieces and to cut	plasmid to make
	(a) DNA Ugase End (d) Restriction Enzy	-	(b) Constructive Enzyme(e) Regenerator Enzyme	(c) Recom	nbinant Enzyme
8.	The enzyme used to (a) Restriction Enzyme (d) Reductase		s: (b) Ligase (e) Regenerator Enzymes	(c) Polyme	erase
9.	The enzymes that a (a) Restriction Enzy (d) Reductase		n recombinant DNA technolo (b) Ligase (e) Regenerator Enzymes	(c) Polyme	erase
10.	Restriction Enzyme (a) 1940s	es were discovere (b) 1950s	ed in: (c) 1960s	(d) 1970s	(e) 1980s
11.	Each restriction en: (a) Cut ends (d) Recombination		at a specific site, called: (b) Sticky ends (e) Gliding ends	(c) Ligatin	g ends
12.	Now a days, insulir (a) Salmonella typh (d) Bacteriodes frag	ni	zed by genetically engineere (b) Pseudomonas aurigor (e) Escherichia coli		a sortnei

13.	An organic compound used to make a	a sweetener by some genetically	engineered bacteria:	
	(a) Phenyltryptamine(d) Diacylglycerol	(b) Phenylanaline(e) Peroxidase	(c) Ketone bodies	
14.	The only plasmid for transgenic plant (a) Gr-plasmid (d) Pr-plasmid	cells is: (b) Sc-plasmid (e) Nc-plasmid	(c) Ti-plasmid	
15.	The first transgenic fruit approved is: (a) Water Melon (b) Pomegrana	ate (c) Mango	(d) Tomato (e) A	Apple
16.	To increase the CO ₂ fixation property, (a) Ribulose biphosphate (d) Ribulose bisulphate	molecular scientists are working (b) Ribulose bicarbonate (e) Ribulose reductase	g to enhance the efficiency of (c) Ribulose bicitrate	
17.	Human lactoferrin is a protein that is it (a) Potassium (b) Iron	nvolved in transport an (c) Sulphur		Calcium
18.	The synthesis of complementary DNA (a) Reverse translation (d) DNA ligation	(cDNA) on mRNA template is to (b) Dihybridization (e) DNA polymerization	ne: (c) Reverse transcri	ption
19.	In Eukaryotic gene cloning, the syntheta (a) DNA polymerase (d) Reverse polymerase	esis of cDNA on mRNA template (b) RNA polymerase (e) Reverse transcriptase	is being catalyzed by an en (c) DNA ligase	zyme:
20.	In Eukaryotic gene cloning, the syntobtained from: (a) Retroviruses (d) Bunyaviruses	thesis of cDNA on mRNA is ca (b) Reoviruses (e) Paramyxovirus	talyzed by "Reverse transc	riptase"
21.	A method of determining nucleotide so (a) T. H. Morgan (b) G. J. Mend			.amarck
22.	DNA fragments differing as much as of (a) Get diffusion method (d) DNA hybridization	one nucleotide than each other of (b) Polymerase chain reaction (e) Dark field microscopy	an separate by: (c) Gel electrophore	sis
23.	The differences in DNA electrophores (a) Promoters Fragments Length Ison (b) Enhancer Restriction Length Polyr (c) Restriction Fragments Length Poly (d) Controller Fragment Length Isomo (e) All are incorrect	norphism (IFLI) morphism (ERLP) vmorphism (RFLP)	e called:	
24.	Human Genome Project (HPG) begar (a) 1930(b) 1940(c) 1960 (d) 1980(e)			
25.	Chromosomal abnormality includes: (a) Down's syndrome (d) Cystic Fibrosis	(b) Parkinson's disease (e) Asthma	(c) Huntington's dise	ease
26.	Unifactorial defect includes: (a) Down's Syndrome (d) Cystic Fibrosis	(b) Turner's Syndrome (e) Insulin Dependent Diabetes	(c) Asthma Mellitus	

27.	Multifactorial disorder includes: (a) Down's Syndrome (d) Hungtington's Disease	(b) Kilnefelter's Syndrome (e) Cystic Fibrosis	(c) Asthma	
28.	Hungtington's disease is due to an au (a) 2 (b) 4	utosomal dominant allele on chr (c) 6	romosome no: (d) 8	(e) 14
29.	Regarding Hungtington's disease, where (a) It is due to an autosonial dominant (b) The affected individuals are almost (c) Appearance of symptoms is usual (d) Involuntary muscle movement is part (e) There is no any treatment of the content.	nt allele st heterozygous for the defective Ily earlier in the age of 2O ₂ present along with progressive r		
30.	"Cystic Fibrosis" is a disease of: (a) Heart (b) Liver	(c) Kidneys	(d) Lung	(e) Brain
31.	The first illness likely to be treated by (a) Sudden Infant Death Syndrome (c) Acquired Immunodeficiency Synd (e) Combined Immunodeficiency dise	(b) Auto Immu rome (d) Static Imm	unodeficiency Disease unodeficiency Disease	
32.	In Combined Immunodeficiency Dise (a) DNA polymerase (d) Adenosine Deaminase	ase, the cells of the bone marro (b) DNA ligase (e) Adenosine Transaminase	ow cannot produce an e (c) Reverse T	=
33.	Small amount of amniotic fluid is with (a) Amniography (d) Polymerase Chain Reaction	drawn from the amniotic sac for (b) Amnio-rhesus (e) Western Blot Analysis	r diagnostic purpose is: (c) Amniocent	
34.	Multifactorial defects refers to: (a) One gene (d) Many genes and environmental fa	(b) Chromosomal abnormality actors	(c) Many gene (e) None	es
35.	If the sequence of nucleotides or synthesized DNA strand would: (a) UAGCAU (b) AUCGAU	n mRNA template is "AUCGI	UA", then the sequer	nce of newly
36.	Production of duplicate copies of genaturally in environment is: (a) Polymerase Chain Reaction (d) Immunochromatography	enetic material, cells or entire n (b) Western Blot Analysis (e) Cloning	nulti-cellular living orga (c) DNA Hybr	
37.	A technique to separate molecules of (a) Electrophoresis (d) Human Genome Project	n the basis of their size, shape a (b) Eastern Blot Analysis (e) Gene therapy	and rate of movement is (c) Genomic L	
38.	Some human DNA does not code for (a) DNA hybridization (d) DNA Finger printing	proteins and repeated frequent (b) Human Genome Project (e) Genomic library	tly, it is called: (c) Gene thera	ару
39.	Culture of preferred genes carrying v (a) DNA hybridization (d) DNA Finger Printing	ectors of a species in a preferre (b) Human Genome Project (e) Genomic library	ed environmental is calle (c) Gene there	

40. The recombinant DNA technology leads us into the major growing industry, the: (a) Bio-physics (b) Biotechnology (c) Biochemistry (d) Biomechanics (e) Biostatics 41. The first restriction enzyme was isolated by: (b) Hamilton (a) Kary Mullis (c) Sanger (d) Maxum 42. The enzyme luciferase produce by an insect called: (a) Housefly (b) Firefly (c) Butterfly (d) Tsetse fly

(a) Antithrombin III (b) Neutra sweet

Polyhydroxy butyrate is called:

43.

44.

A balloon catheter is used in the treatment of:

(a) SCID

(b) Closed Artery

(c) Cystic fibrosis

(d) Hypercholesteromia

(c) Luciferin

(d) Biodegradable plastic

45. Commonly used restriction enzyme is: (a) Plasmid (b) p SC 101 (c) p BR 322 (d) ECO R_1





1.	Gradual development of something is:		
	(a) Existence	(b) Ecosystem	(c) Evolution
	(d) Natural Selection	(e) Revolution	
2.		deep in the water especially in hot spr	_
	(a) Hydrothermal vent	(b) Epidermal vent	(c) Hypothermal vent
	(d) Hydropressure vent	(e) All are correct	
3.	Theory of organic evolution based on (a) Survival of the fittest	the principle of "Use and disuse of orga (b) Theory of Natural Selection	an" is now considered as: (c) Inheritance of two traits
	(d) Theory of origin of species	(e) Inheritance of acquired characters	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4.	are transmitted to its offspring in the new	enerations promote the origin of new or ext generation". This is called:	rgans or characters, which
	(a) Survival of the fittest	(b) Theory of Natural Selection	(c) Inheritance of two traits
	(d) Theory of origin of species	(e) Inheritance of acquired characters	• •
5.	Lamarck's theory was strongly oppose	ed criticized and rejected by:	
	(a) Weismann (b) T. H. Morga	an (c) Zimmermann (d) G.	J. Mendel (e) Darwin
6.	Lamarck's theory based on following p	points except:	
	(a) Effects of environment	(b) Use and disuse of organs	(c) Natural Selection
	(d) Inheritance of acquired characters	(e) Evolution of giraffe to support evol	ution theory
7.	Cells which differentiate into various ti	ssues and form different organs of the	body are:
	(a) Epithelial cells	(b) Germ cells	(c) Ectodermal cells
	(d) Somatic cells	(e) All are incorrect	
8.	Cells remain undifferentiated, which la	ater on give rise to egg cells or sperm c	ells are:
	(a) Epithelial cells	(b) Germ cells	(c) Ectodermal cells
	(d) Somatic cells	(e) Endodermal cells	
9.	"Theory of Natural Selection" was prop	posed by:	
	(a) Charles Darwin (b) Weismann	(c) T. H. Morgan (d) G.	J. Mendel (e) Lamarck
10.	Darwin's theory based on following po	ints except:	
	(a) Over production	(b) Struggle for existence	(c) Variations and Heredity
	(d) Survival of the fittest	(e) Inheritance of Acquired Characters	5
11.	-	he severe competition for food and spa	ace and other necessities of
	life", what Darwin called the: (a) Over production	(b) Struggle for existence	(c) Variations and Heredity
	(d) Survival of the fittest	(e) Inheritance of Acquired Characters	• •
	(a) Curvival of the fitteet	(c) illionarios of Acquired enaracient	S
12.	Struggle between the individuals of sa		
	(a) Inter specific struggle	(b) Sub-specific struggle	(c) Intra specific struggle
	(d) Environmental struggle	(e) Occupational struggle	

13.	Struggle among the r (a) Inter specific strug (d) Environmental str	ggle	(b) Su	ecies is: b-specific struggle cupational struggle		(c) Intra sp	ecific struggle
14.	Struggle against the (a) Inter specific strug(d) Environmental str	ggle	(b) Su	e is: b-specific struggle cupational struggle		(c) Intra sp	ecific struggle
15.	Darwin's theory base (a) Formation of new (d) Use and disuse o	species	(b) Str	cept: ruggle for existence rvival of the fittest		(c) Variatio	ns and Heredity
16.	The theory of organic (a) 1759	evolution given (b) 1766	by Cha	rles Darwin in: (c) 1819	((d) 1834	(e) 1859
17.	De Varies is known for (a) Evolution Theory (d) Selection Theory	or his:	` '	itation Theory eory of Variation		(c) Revolut	ion Theory
18.	"Germinal Continuity (a) Hutton	Theory" was pro (b) Lamarck	posed l	oy: (c) Weismann	((d) T. H. Morgan	(e) Darwin
19.	A branch of biology in (a) Histology	n which various o (b) Entomolog	•	ns showing resem (c) Toxicology		s have been classii (d) Taxonomy	fied is called: (e) Anatomy
20.	Archaeopteryx was a (a) Snake	fossil: (b) Bird		(c) Crocodile		(d) Fish	(e) Monkey
21.	From evolutionary po (a) Echinoderms	int of view birds (b) Sponges	come fr	om: (c) Reptiles	F	(d) Amphibians	(e) Mammals
22.	Study of different spe (a) Homology	cies show close (b) Heterology		olance in their anat (c) Enzymology	-	: (d) lchthyology	(e) Cytology
23.	Tail bone which is ve (a) Femur	stigial in man bu (b) Radius	t well-de	eveloped in other v (c) Ischium		ates is: (d) Sacrum	(e) Coccyx
24.	Vermiform Appendix (a) Ileum	in man is a smal (b) Rectum	l finger-	like reduced : (c) Colon	((d) Duodenum	(e) Caecum
25.	Membrane well-deve man is: (a) Conjunctival mem (d) Cribriform membr	brane	(b) Nic	eir eye-ball but hig ctitating membrane eural membrane	-		n-functional in
26.	Artificial selection in to (a) Revolution (d) Degeneration	preeding provide	(b) Ins	nce for evolution is emination terioration	S :	(c) Domest	ication
27.	Kind of selection mai (a) Solitary selection (d) Domestication	ntains the consta	(b) Art	species over gene ificial selection enetic selection	ration is		ng selection
28.	A more or less genet (a) Deme	ically isolated un (b) Beme	it of pop	oulation is known a (c) Heme		(d) Mene	(e) Zeme

29.	The genetic constitution (a) Gene population (d) Gene pool	on of a deme is I	known as: (b) Gene store (e) Gene set p		(c) Gene	e accumulation
30.	A branch of genetics t (a) Allelic genetics (d) Evolutionary genet		ne frequency, di (b) Inherited g (e) Distributor	enetics		es in population is: ulation genetics
31.	"Under stable condition generation", this is: (a) Lamarck's Inherita (c) Hardy Weinberg La (e) De Varies Mutation	nce of Acquired aw of Equilibriun	Characters	(b) Weismanı	tios remain constants I's Germinal Conti I'heory of Organic	nuity Theory
32.	Tests of blood sera ha	ave shown the re (b) Sheep	elationship betw (c) Ca		(d) Bears	(e) Apes
33.	Muscles found vestigia (a) Eye muscles (d) Ear muscles	al in man:	(b) Fingers mu (e) Scalp mus		(c) Nose	e muscles
34.	"A process in which the on with greater freque (a) Theory of Acquired (c) Theory of Natural States (e) Hardy Weinberg La	ncy from one ge d Inheritance Selection	eneration to the	next" is:	Origin of Species	that will be passed
35.	The main reason for e	xtinction of spec (b) Over produ	\	rasitism	(d) Habitat Dest	ruction
36.	In a population that is the frequency of the d (a) 0.48			?	als show the reces	sive trait. What is
37.	Wallace developed the	e theory of natur (b) Linnaeus	ral selection es (c) Da	=	al to: (d) Hutton	
38.	According to endosym (a) Ribosomes	nbiont hypothesis (b) Lysosomes		acteria is devel ochondria	oped into: (d) Golgi appara	atus
39.	Essay on the principle (a) Darwin	of population w (b) Wallace		y: naeus	(d) Malthus	
40.	Endosymbiont hypotheral (a) Cuvier	esis was suppor (b) Lyell	ted by: (c) Ma	rgulis	(d) Malthus	
41.	Armadillos the Armore (a) Europe	ed mammals live (b) America	only in: (c) Au	stralia	(d) Asia	



1.	The scientific study of (a) Homology	various relationships o (b) Entomology	f living things to each of (c) Ecology	ther and with their envir (d) Ichthyology	onment is: (e) Cytology
2.	The ecology is usually (a) Environmental Bio (d) Biotechnology	logy (b) Oc	ccupational Biology omechanics	(c) Population	Biology
3.	• .	ndividuals that live toge (b) Population	ther in the same area at	the same time from a: (d) Environment	(e) Habitat
	(a) Ecosystem	(b) Fopulation	(c) Community	(d) Limitorinient	(e) Habitat
4.	All populations living i (a) Ecosystem	n a particular area form (b) Community	: (c) Environment	(d) Biosphere	(e) Habitat
5.	 (a) Population → Ecos (b) Ecosystem → Pop (c) Population → Ecos (d) Ecosystem → Bios 	levels of organization, values of organization, values of community outlation → Community organization → Biosphere → Community organization, values of the control of the	→ BiosphereCommunity→ Population	ect?	
6.	A collective term for a (a) Ecosystem	Il conditions in which ar (b) Community	organism lives is: (c) Environment	(d) Biosphere	(e) Habitat
7.	The type of environme (a) Ecosystem	ent in which a particular (b) Community	organism or population (c) Population	lives, is its: (d) Biosphere	(e) Habitat
8.	The biogeographical i	egions are further diffe	erentiated on the basis o	of complex interaction of	of climate and
	biotic factors into large (a) Ecosphere	e easily recognizable co (b) Biosphere	ommunity units called: (c) Environment	(d) Biomes	(e) Habitat
9.		oproach of individual sp (b) Entomology		(d) Autecology	(e) Ecology
10.	The study of different (a) Entomology (d) Gynaecology	(b) Sy	tion between them and necology otechnology	their environment is cal (c) Autecology	
11.	"Earth" is an example (a) Population	of: (b) Community	(c) Ecosystem	(d) Biosphere	(e) Habitat
12.	The term "Ecosystem" (a) T. H. Morgan	was first used by: (b) G. J. Mendel	(c) Lamarck	(d) Charles Darwin	(e) Tansely
13.		onal unit of a commun	ity, which shows relation	onship between flow o	f energy and
	cycling of matter, is: (a) Ecosphere	(b) Ecosystem	(c) Biosphere	(d) Environment	(e) Habitat

14.	The chlorophyll absorb (a) Yellow and orange (d) Orange and red	-	(b) Red	ours to utilize in phand green and blue	notosynthesis	s. (c) Violet and I	blue
15.	In nature, continuous (a) Hydrological cycle (d) Hydrothermal cycle			rophobic cycle		(c) Hydrophilic	cycle
16.	The visible light is a si (a) 400 - 780	mall part of Elec (b) 450 - 600	_	etic spectrum, wh (c) 500 - 850	-	om) - 690	millimicrons. (e) 400 - 760
17.	Plants require shade t (a) Heliophytes (d) Thallophytes	o grow are:		rmophytes ophytes		(c) Sciophytes	
18.	Plants require light to (a) Dermophytes (d) Thallophytes	_	(b) Heli rophytes	ophytes		(c) Sciophytes	
19.	The concentration of ca) 21%	oxygen in atmos (b) 50%	sphere is	above: (c) 30%	(d) 60%	6	(e) 75%
20.	The fungi whose grow (a) Pyrothermal fungi (d) Pyrothecal fungi	th is favoured b	(b) Pyro	known as: phydral fungi pphobic fungi		(c) Pyrophilus	fungi
21.	The study of surface to (a) Taxonomy (d) Tomography	exture is termed	(b) Top	ography nyology	K	(c) Entomolog	у
22.	Higher altitudes are as (A) Low Temperature, (B) Low Temperature, (C) High Temperature (D) Low Temperature, (E) High Temperature	Low Pressure, High Pressure, Low Pressure, Low Pressure,	High Wi , Low Wii High Wii	nd Velocity nd Velocity nd Velocity			
23.	Factors pertaining to c (a) Climatic Factors (d) Facility Factors	conditions and c	(b) Eda	on of soil are term phic Factors ospheric Factors	ned as:	(c) Topograph	ic Factors
24.	Scientific study of soil (a) Entomology	is called: (b) Pediatrics		(c) Pedology	(d) Der	nology	(e) Topology
25.	Biotic component of E (a) Light	cosystem includ (b) Autotrophs		(c) Temperature	(d) Wa	ter	(e) Wind
26.	Zooplanktons and crus (a) Producers (d) Secondary consum		` ,	omposers iary consumers		(c) Primary co	nsumers
27.	Example of producer i (a) Zooplankton	s: (b) Eagles		(c) Grass-hopper	(d) Red	dwood tree	(e) Fish

28.	Animals feed upon mixed diet of plant (a) Autotrophs (d) Omnivores		(b) He	animals are: rbivores rnivores	(c) Sapı	rotrophs
29.	In recycling of materia (a) Producers (d) Tertiary consumers	-	(b) Pri	played by: mary consumers composers	(c) Seco	ondary consumers
30.	Air contains(a) 30	% of nitrogen. (b) 50		(c) 65	(d) 73	(e) 78
31.		ch one organism	n lives te	emporarily or permane	ntly within or anot	her organism called
	host is: (a) Parasitism	(b) Mutualism		(c) Predation	(d) Commensal	ism (e) Grazing
32.	The relationship in wh (a) Parasitism	iich organism ge (b) Mutualism	ets bene	efit from host, but host of (c) Predation	does not get bene (d) Commensal	
33.	Example of parasites (a) Actinomycetes (d) Yersinia pestis	include:		stoplasma capsutatum enia saginata	(c) Coc	cidiodes immitis
34.	The relationship of Hy (a) Mutualism	drictinia and He (b) Commensa		ab is called: (c) Parasitism	(d) Predation	(e) All
35.	The term "succession" (a) 1971	" was first used (b) 1900	by Hult	in year; (c) 1885	(d) 1965	(e) 1977
36.	The process of orderly (a) Interaction	y community cha (b) Succession	_	called: (c) Revolution	(d) Association	(e) Predation
37.	Succession occurs in (a) Hydrosere	an area when a (b) Thermoser		e moisture is present is (c) Phytosere	called: (d) Mesosere	(e) Xerosere
38.	The stable and mature (a) Successors	e community of a (b) Xerosere	a climat	e is called: (c) Biosphere	(d) Mesosere	(e) Climax
39.	Xerosere includes: (a) Wood land stage (d) Sedge meadow sta	age		ed swarm stage ustose lichen stage	(c) Subi	merged stage
40.	All are included in Xer (a) Foliose lichen stag (d) Herb stage			rub stage ood land stage	(c) Mos	s stage
41.	"Selaginella" is includ (a) Crustose lichen sta (d) Shrub stage			ess stage max stage	(c) Herb	os stage
42.	"Hydrilla" is included in (a) Phytoplankton stag (d) Moss stage			eating stage rb stage	(c) Subi	merged stage
43.	An association between (a) Parasitism	en fungus and a (b) Mycorrhiza	-	an example of: (c) Lichens	(d) Commensal	ism

44.	The green photosynthetic plants that capture and bring light energy into ecosystem are:						
	(a) Scavengers	(b) Decomposers	(c) Consumers	(d) Producers			
45.	A change in commu	inity structure of an ecos	system over a period o	of time is called:			
	(a) Niche	(b) Pioneer	(c) Succession	(d) Unstable ecosystem			
46.	Who proposed the t	erm Niche?					
	(a) Haeckel	(b) Grinnell	(c) Linnaeus	(d) Lamarck			
47.	In ecosystem, seco	nd trophic level consists	of				
	(a) Producers		(b) Primary Consur	ners			
	(c) Secondary Cons	sumers	(d) Tertiary Consumers				





SOME MAJOR ECOSYSTEMS

1.	The producers of a po	ond ecosystem are: (b) Zooplankton	(c) Phytoplankton	(d) Viruses	(e) Fungi
2.	Primary consumer of a (a) Diving beetles	a pond ecosystem are (b) Phytoplankton	: (c) Zooplanktons	(d) Aspergillus	(e) Turtle
3.	Secondary consumer (a) Diving beetles	of a pond ecosystem i (b) Phytoplankton	s: (c) Turtle	(d) Aspergillus flavus	(e) Molluscs
4.	Tertiary consumer of a (a) Diving beetles	a pond ecosystem is: (b) Carnivore fish	(c) Aspergillus flavus	(d) Zooplankton	(e) Turtle
5.	Decomposers of pond (a) Phytoplankton	l ecosystem are: (b) Zooplanktons	(c) Carnivore fishes	(d) Aspergillus flavus	(e) Turtles
6.	The sea below 2000 n (a) Euphotic	neters is called (b) Pelagic	zone. (c) Bathyal	(d) Benthic	(e) Abyssal
7.	The salt concentration (a) 3.5%	of sea is generally: (b) 5.0%	(c) 4.6%	(d) 4.0%	(e) 6.5%
8.	The most productive z (a) Oceanic	cone of the sea is: (b) Necritic	(c) Benthic	(d) Pelagic	(e) Abyssal
9.	Onchophora is a new (a) Annelida and Mollu (d) Mollusca and Mam	` '	een: chinodermata and Arthro nnelida and Echinodenna		nd Arthropoda
10.	The maximum temper (a) 10 °C	rature in tundra do not (b) 20 °C	exceeds: (c) 25 °C	(d) 30 °C	(e) 35 °C
11.	Deserts occupy about (a) 5%	of land surface of the (b) 8%	earth. (c) 10%	(d) 12%	(e) 17%
12.	Largest desert found i (a) Gobi	n earth is: (b) Sahara	(c) Thar	(d) Cholistan	(e) Thal
13.	In desert ecosystem, p (a) Thallophytic (d) Sciophytic	(b) H	eliophytic alophytic	(c) Xerophytic	
14.	In winter, the tempera (a) -5 °C	ture of tundra reaches (b) -10 °C	upto: (c) -20 °C	(d) -48 °C	(e) -57 °C
15.	The frozen sub-soil of (a) Sub frost	tundra is termed as: (b) Perma frost	(c) Tundra frost	(d) Apical frost	(e) Pro frost

16.	In tropical rain forest, (a) 18 °C	rainfall is heavy (b) 20 °C	and anr	nual average tempe (c) 28 °C	erature is about: (d) 35 °C	(e) 40 °C
17.	The term "deciduous" (a) Winter	is applied to the (b) Autumn	se plan	ts, which shed off the (c) Summer	heir leaves during season: (d) Spring	(e) Rainfall
18.	Grassland covers abo (a) 3%	out of earth's sur (b) 5%	face.	(c) 12%	(d) 15%	(e) 19%
19.	The term "savannah" (a) Temperate Decidu (d) Tropical Rain Fore	ous Forest	. ,	niferous Forest sert Ecosystem	(c) Tropical G	rass Lands
20.	Lands where evapora (a) Temperate Decidu (d) Tropical Rain Fore	ous Forest		pical Grass Lands sert	(c) Tundra	
21.	Temperature of Savar (a) 15 °C	nnah generally r (b) 12 °C	anges th	nroughout the year. (c) 18 °C	(d) 30 °C	(e) 45 °C
22.	Coldest desert of the v	world found in: (b) Magnolia		(c) Australia	(d) Central Asia	(e) America
23.	The recognizable unit (a) Ecosystem	of habitat is call (b) Ecosphere		(c) Biosphere	(d) Biome	(e) Savannal
24.	"Perma forest" is a ch (a) Temperate Decidu (d) Savannah		\ 	niferous Forest serts	(c) Tundra	
25.	"Ever green plants" ar (a) Tropical rain forest (d) Coniferous forest		(b) Tur		(c) Deciduous	forest
26.	Grass land become as	re known as (b) Flower		basket of the world (c) Green	d. (d) Beautiful	(e) Bread
27.	In grass land biomes, (a) 25 - 75 cm	the rainfall usua (b) 150 -200 c	•	reen: (c) 100 -125 cm	(d) 125 -150 cm	(e) < 24 cm
28.	Macronutrient present (a) Copper	as abiotic comp (b) Manganeso		n pond ecosystem i (c) Magnesium	s: (d) Iron	(e) Zinc
29.	All are micronutrients (a) Carbon	present as abio	tic comp	oonent in point ecos (c) Potassium	system except: (d) Magnesium	(e) Iron
30.	The plants of intertida (a) Chitin	I zone possess (b) Cellulose	a jelly lik	ke substance called (c) Agar	l: (d) Yolk	(e) Gel
31.	The ocean covers(a) 25	% earth s (b) 35	urface.	(c) 50	(d) 70	(e) 5
32.	Soil of grassland conta (a) Sand	ains large amou (b) Clay	nt of:	(c) Loam	(d) Silt	(e) Humus

33.	The plants in deserts: (a) Broad Leaves	(b) Short Rooted	(c) Conserve Water	(d) Remain Ever Green
34.	Savannas are grasslar (a) Temperate Region		(c) Arctic Region	(d) Alpine Region
35.	The zone where enoug	gh light penetrates to su (b) Limnetic	ipport photosynthesis: (c) Profundel	(d) Benthic
36.	Limnetic phytoplanktor (a) Bacteria	n includes the: (b) Algae	(c) Mosses	(d) Cyanobacteria
37.	Crustaceans with a sp (a) Porpoise	iny projection on these (b) Whale	plank tonic creatures he (c) Copepod	elp to keep them from sinking: (d) Bobcat
38.	A succulent plant has (a) Cacti	water stored in tissues: (b) Moss	(c) Yarrow	(d) Spruce
39.	Chillas has major terre (a) Deciduous forests	estrial ecosystem called (b) Alpine forests	: (c) Tundra	(d) Grassland
40.	In Sindh, the desert ed (a) Thal	cosystem is called: (b) Sahara	(c) Thar	(d) Cholistan



>>> MAN AND HIS ENVIRONMENT

1.	Percentage of Carbon (a) 78%	present in air is (b) 50%	: :	(c) 0.03%		(d) 0.001%		(e) 0.1%
2.	Non-Renewable reser (a) Oil	ves includes all (b) Coal	except:	(c) Metals		(d) Natural (Gas	(e) Soil
3.	Renewable Resource (a) Air	includes: (b) Natural Gas	S	(c) Coal		(d) Metals		(e) Oil
4.	Of the total water of the (a) 10%	ne world (b) 25%	is in	the ocean. (c) 50%		(d) 75%		(e) 93%
5.	Most of the atmosphe (a) River (d) Moist soils	ric water vapour	(b) Sea		ons	(c) L	.akes	
6.	Renewable source of (a) Petroleum	Energy includes (b) Falling wate		(c) Tar		(d) Nuclear	Fuels	(e) Coal
7.	Non-renewable source (a) Nuclear fuels	e of energy inclu (b) Petroleum	ides all	except: (c) Oil shales	F	(d) Wind		(e) Coal
8.	All are renewable reso (a) Oil Shales (d) Plant Materials	ources of energy	(b) Oc	: ean Currents mperature Gradie	nts	(c) Wind		
9.	Common cancer induction (a) Renal Cell Carcino (d) Thyroid Cancer	=	(b) Sto	mach Cancer patocellular Carci	noma	(c) F	Pancreatic	Cancer
10.	In a nuclear reaction 1 (a) 12 kJ	kg of nuclear fu (b) 50 kJ	uel relea	asing as heat. (c) 79 kJ		(d) 85 kJ		(e) 98 kJ
11.	New plantation is: (a) Eforestation (d) Neoforestation		. ,	restation forestation		(c) [Deforestatio	on
12.	Stationary combustion (a) CO ₂	n plants and tran (b) NO	sport ve	ehicles burn fuel a (c) SO ₂	at very	high tempera (d) O ₂	ature and p	roduces: (e) CO
13.	Ozone is: (a) O ₃	(b) O ₇		(c) O ₅		(d) C ₂ O		(e) C ₆ H ₂ O ₆
14.	A major source of chlo (a) Chloro-plosgene (d) Chloroacetate	orine is an indus	(b) Chi	oduced group of oronitrate orocitrate	gases		Chlorofloro-	carbon

15.	According to decibel s (a) 20	scale, noise abov (b) 40	e decik	pels is considered as lo (c) 60	ud. (d) 80	(e) 90	
16.	Chicken pox is cause (a) Cytomegalo	-			(d) Influenza	(e) HIV	
17.	Pneumonia is (a) Bacterial			(c) Fungal	(d) Protozoal	(e) Viral	
18.	"Typhoid fever" is cau (a) Varicella-zoster				(d) Rabies virus	(e) None	
19.	Rabies is transmitted (a) Humans	through: (b) Mosquitoes		(c) Dogs	(d) Sheeps	(e) Cats	
20.	Athelete's foot is: (a) Taenia versicolor (d) Taenia corporis		` '	enia soluim enia pedis	(c) Taenia sa	ginata	
21.	Ring worm of body is caused by: (a) Plasmodium spp. (b) Trypanosoma spp. (d) Varicella-zoster virus (e) Dermatophytes				(c) Streptococcus		
22.	"African sleeping sick (a) Bacterial	ness" is (b) Parasitic	_ disea	se. (c) Fungal	(d) Protozoal	(e) Viral	
23.	"Cholera" is(a) Bacterial			(c) Parasitic	(d) Protozoal	(e) Viral	
24.	"Trypanosomiasis" is (a) Mangoe fly		•	of infected: (c) Culex mosquito	(d) Tsetse fly	(e) Sand fly	
25.	Hydatid disease is du (a) Taenia saginata (d) Enterobius vermilo		(c) Taenia sodium				
26.	Beri-Beri is due to def (a) B ₁	ficiency of vitaming (b) B ₆	า:	(c) B ₂	(d) D	(e) K	
27.	Deficiency of Vitamin (a) Night Blindness	"D" causes: (b) Ben-Ben		(c) Scurvy	(d) Rickets	(e) Anemia	
28.	"Leishmaniasis" is tra (a) Mangoe fly	•		Injected: (c) Culex mosquito	(d) Tsetse fly	(e) Sand fly	
29.	Prolong bleeding is do	ue to deficiency o (b) B	of vitam	nins: (c) C	(d) D	(e) K	
30.	Deficiency of fluorine (a) Anemia	causes: (b) Prolong ble	eding	(c) Tooth decay	(d) Goitre	(e) Albinism	
31.	Deficiency of iron cau (a) Haemophilia	ses: (b) Prolong ble	eding	(c) Tooth decay	(d) Goitre	(e) Anemia	

32.	Haemophilia is due to (a) II	deficiency of a b (b) IV	olood pr	otein-factor (c) VI	(d) VIII	(e) X
33.	Aging associated disea (a) Tuberculosis	ase is: (b) Scurvy		(c) Osteoarthritis	(d) Sickle Cell Anemia	(e) AIDS
34.	Alzheimer's disease is (a) Aging	associated with (b) Malnutrition		(c) Tungus	(d) Fungus	(e) Parasite
35.	Abnormal haemoglobii (a) Megaloblastic Aner (d) Albinism	mia	(b) Sick (e) Asth	kle Cell Anemia nma	(c) Haemophilia	
36.	Anemia is due to the d	eficiency of vitar (b) B	min:	(c) C	(d) D	(e) E
37.	Influenza is transmitted (a) Air-borne droplets (d) Water contamination		` '	cual contact aring hypodermic needle	(c) Bite from in	fected dog
38.	Goitre is due to deficie (a) Sodium	ncy of: (b) lodine		(c) Fluorine	(d) Potassium	(e) Iron
39.	Which is not a micronu (a) Zinc	utrient? (b) Iron		(c) Sulphur	(d) lodine	
40.	The percentage of land (a) 30%	d under cultivation (b) 21%	on:	(c) 11%	(d) 15%	
41.	Lung cancer is due to: (a) CFCs	(b) Sulfur dioxic	de	(c) Oxides of Nitrogen	(d) Carbon Monoxide	
42.	Ozone molecule is form (a) Carbon	med by the fusio (b) Hydrogen	n of thre	ee atoms of: (c) Nitrogen	(d) Oxygen	
43.	Only 30% of Earth is: (a) Land	(b) Freshwater		(c) Marine Water	(d) Mountains	
44.	It is not fossilized fuel: (a) Lignite	(b) Peat		(c) Natural gas	(d) Oil	
45.	Which one is involved (a) Sulphur	in destruction of (b) Lead	ozone	molecules in ozone layo (c) Carbon Monoxide		
46.	Stone monuments like (a) Acid Rain	TAJ MEHAL are (b) Radiation	e being	eroded due to "stone ca (c) Eutrophication	ancer" by (d) Green House Effec	 et